pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS
LAND RECYCLING PROGRAM

Land Recycling Program
Transmittal Sheet for Plan/Report Submission

Instructions: Please provide all requested information in each of the four sections. This transmittal sheet shall accompany any plan/report submitted to the Department under the Land Recycling Program. Proper completion of the Transmittal Sheet will assist Department review and may avoid a finding of plan/report deficiency. The Facility ID number can be obtained from the Department's Environmental Cleanup Program in the region where the site is located.

Section 1 - Site Identification

eFACTS Facility ID 860730

Site Name Alliance 51st Street

Site Address 1646 South 51st Street

Municipality and County City of Philadelphia, Philadelphia County

Section 2 - Remediation Standard . . Plan/Report . . Fees

Identify the remediation standard being pursued and the type of plan/report being submitted. Please note required Department fees follow each type of plan/report.

Check the relevant standard and the type of plan/report being submitted.

☐ Background Standard
Final Report ($250 fee)

☐ Site-Specific Standard

- ☐ Remedial Investigation Report ($250 fee)
- ☒ Risk Assessment Report ($250 fee)
- ☒ Cleanup Plan ($250 fee)
- ☐ Final Report ($500 fee)*

☐ Statewide Health Standard*
Final Report ($250 fee)

☐ Special Industrial Area

- ☐ Work Plan (no fee)
- ☐ Baseline Environmental Report (no fee)

*A final report submitted under a combination of cleanup standards should be accompanied with a fee representing the higher of the two standards' final report fee.

Ensure your check covers all required fees and is made payable to the **Commonwealth of Pennsylvania**.

Section 3 - Municipal/Public Notice Confirmation

There are two stages in the Land Recycling Program where municipal and public notices are required. Read the information associated with each stage. You will be asked to confirm that information establishing your compliance with these notification requirements has been included with this submission.

☐ Check here if you are planning to meet the Background or Statewide Health Standard and your Final Report has been submitted within 90 days of the release.

Indicate date of release here _____

No further completion of this section is required if your Final Report for these two standards conforms to the 90 day time frame.

Stage 1 - Notice of Intent to Remediate (NIR)

☒ Check here to confirm you have included proof that a copy of your NIR was provided to each municipality where your site is located. Proof will be a copy of your cover letter and a copy of a signed certified mail receipt slip from the municipality.

☒ Check here to confirm a copy of a proof of publication document from a newspaper serving the area of your site has been included with this submission.

☒ Check here to indicate that a Site-Specific Standard or a Special Industrial Area is involved and a municipal request was received for development of a public involvement plan. The plan/report submission shall include municipality and public comments, which were submitted, and your responses to those comments.

Stage 2 - Cleanup Plan/Report Submission

February 11, 2025 Place date here that each municipality was notified of any plan or report submitted under any of the three remediation standards.

Philadelphia Inquirer February 11, 2025 Place the newspaper name and date that your notice of your plan/report submission was published.

Section 4 - Project Contact

On the lines below, place the name, company, mailing addresses and business phone number of the individuals who can be contacted regarding this submission:

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Contact Person/Title: .

Relationship to Site

(e.g. owner, participant in cleanup, responsible party, etc.)

Phone Number

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Company Name:

Mailing Address (street, city, state, zip)

Alliance 51st Street LLC

ACT 2 REMEDIAL INVESTIGATION REPORT AND CLEANUP PLAN

Former 51st Street Terminal
1630-1646 South 51st Street
Philadelphia, Pennsylvania
Facility ID: 51-10420

February 14, 2025

ACT 2 REMEDIAL INVESTIGATION REPORT AND CLEANUP PLAN

Former 51st Street Terminal, 1630-1646 South 51st Street, Philadelphia, Pennsylvania
Facility ID: 51-10420

February 2025

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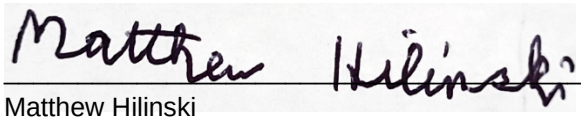
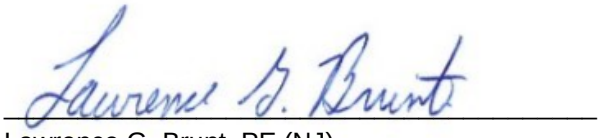
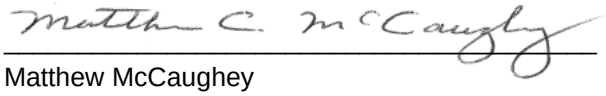


Matthew Hilinski
Project Geologist



Lawrence G. Brunt, PE (NJ)
Principal Engineer



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Acronyms and Abbreviations

µg/L	microgram per liter
µg/m^3	microgram per cubic meter
Act 2	Pennsylvania's Land Recycling Program
Alliance	Alliance 51st Street LLC
Arcadis	Arcadis U.S., Inc.
AST	aboveground storage tank
AUL	Activity and Use Limitation
bgs	below ground surface
COC	constituent of concern
EC	Environmental Covenant
EDR	Environmental Data Resources Inc.
Hawk	Hawk Drilling, Inc.
ID	identification number
MDL	method detection limit
mg/kg	milligram per kilogram
MK	Mann-Kendall
MMP	Materials Management Plan
MSC	Medium-Specific Concentration
NIR	Notice of Intent to Remediate
NOV	Notice of Violation
NWI	National Wetlands Inventory
ORP	oxidation-reduction potential
PADCNR	Pennsylvania Department of Conservation and Natural Resources
PADEP	Pennsylvania Department of Environmental Protection
PBF Logistics	PBF Logistics Products Terminals LLC
PCB	polychlorinated biphenyl
PID	photoionization detector
PNDI	Pennsylvania Natural Diversity Inventory
PVC	polyvinyl chloride
PWD	Philadelphia Water Department

QD	Quick Domenico
RAO	Remedial Action Objective
RAP	Remedial Action Plan
RIR/Cleanup Plan	Act 2 Remedial Investigation Report and Cleanup Plan
FL	reporting limit
ROL	Release of Liability
RSCR	Revised Site Characterization Report
SCR	Site Characterization Report
SHS	Statewide Health Standards
Site	Former 51st Terminal (Facility ID: 51-10420), located at 1630-1646 South 51st Street, Philadelphia, Pennsylvania
Stantec	Stantec Consulting Services, Inc.
SVOC	semi-volatile organic compound
SSDS	sub-slab depressurization system
SSS	Site-Specific Standards
SV	screening value
USEPA	United States Environmental Protection Agency
USFWS	United States Fish & Wildlife Service
USGS	United States Geological Service
VI	vapor intrusion
VOC	volatile organic compound

1. Introduction

On behalf of Alliance 51st Street LLC (Alliance), Arcadis U.S., Inc. (Arcadis) has prepared this Act 2 Remedial Investigation Report and Cleanup Plan (RIR/Cleanup Plan) for the Former 51st Street Terminal (Facility ID: 51-10420) located at 1630-1646 South 51st Street in Philadelphia, Pennsylvania (Site; see Figure 1). This RIR/Cleanup Plan presents Alliance's remediation approach at the Site in conformance with Chapter 250 of Title 25 of the Pennsylvania Code, which relates to the administration of Pennsylvania's Land Recycling Program (Voluntary Cleanup Program; Act 2), and Pennsylvania Department of Environmental Protection (PADEP) guidance (PADEP 2021a). Public notifications of submittal of this RIR/Cleanup Plan are presented in Appendix A.

1.1 Administrative History

The Site is currently under review by PADEP through the Storage Tank and Spill Prevention Act (the Corrective Action Program) for the former aboveground storage tanks (ASTs), as well as the Act 2 Program. In 2021, PBF Logistics Products Terminals LLC (PBF Logistics), the former property owner, closed the ASTs with notice to PADEP. PBF Logistics removed liquids and sludge from the ASTs and lines and then removed the ASTs and lines. After line and tank removal, PBF Logistics sampled soil under the tanks and associated piping. These activities were performed from early August to the end of September 2021. During the AST closure activities, PBF Logistics identified a release of an unknown quantity of petroleum on August 16, 2021 and notified PADEP of the release on August 17, 2021. The release impacted soil that was subsequently excavated by PBF Logistics. PBF Logistics submitted an AST Closure Report to PADEP on December 15, 2021 (PBF Logistics 2021c).

Alliance acquired the Site from PBF Logistics in December 2021. On February 9, 2022, Alliance submitted a Notice of Intent to Remediate (NIR) for the Site under the Act 2 Program to obtain a relief of liability (ROL) for the constituents of concern (COCs) associated with the previous operations of the ASTs and, potentially, other COCs associated with the Act 2 Program (Alliance 2022a). Subsequent to receipt of the NIR, PADEP indicated that the previous Site owner, PBF Logistics, was required to submit a Site Characterization Report (SCR) for the closure of the ASTs by February 13, 2022 in response to the August 2021 Notice of Release Form (PBF Logistics 2021b). On November 3, 2022 Alliance submitted an SCR to fulfill PADEP requirements (Alliance 2022b).

On February 2, 2023, PADEP issued a letter disapproving the November 2022 SCR (PADEP 2023a). Alliance submitted a Revised Site Characterization Report (RSCR) for the Site to PADEP on June 27, 2023 (Alliance 2023a). As requested by PADEP, the RSCR focused only on the COCs associated with the former AST operations. The COCs associated with the Act 2 investigation were not included in the RSCR. The RSCR subsequently was approved by PADEP on September 27, 2023 (PADEP 2023b).

On November 27, 2023, Alliance submitted a Remedial Action Plan (RAP) for the AST case to PADEP (Alliance 2023b), as required by the PADEP's approval of the RSCR (PADEP 2023b). Although Site investigation activities had been performed to address both the AST and Act 2 cases, the RAP was submitted to close the AST case, as discussed with PADEP, and focused on the analytical parameters and investigation activities associated with the former ASTs and the petroleum products that were stored in the tanks. PADEP approved the RAP on February 22, 2024 (PADEP 2024; Appendix A).

Alliance submitted a revised Act 2 NIR to PADEP in July 2024 (Appendix A) to include additional COCs (see Section 5) and to propose attainment of a combination of PADEP Statewide Health Standards (SHS; PADEP 2021b) and Site-Specific Standards (SSS) to be demonstrated at the Site.

This RIR/Cleanup Plan is submitted for the Act 2 case and includes all COCs identified at the Site, including those COCs associated with the ASTs that were evaluated previously in the RSCR (Alliance 2023a) and RAP (Alliance 2023b). The remediation activities proposed in this RIR/Cleanup Plan are consistent with the activities previously proposed in the RAP and approved by PADEP (PADEP 2024).

Soil investigation activities have identified concentrations of benzene, naphthalene, bis(2-chloroethyl) ether, biphenyl, lead, total chromium, and hexavalent chromium at levels greater than their representative PADEP Non-Residential Soil Medium-Specific Concentrations (MSCs), chosen by using the lower of the PADEP Direct Contact and Non-Residential Soil-to-Groundwater screening values (PADEP 2021a). Soil delineation is complete to the property boundary in all compass directions, discussed in Section 5. This document proposes that SSS will be used for these COCs in soil, with pathway elimination consisting of an Environmental Covenant (EC) and controls that will be installed during redevelopment of the Site.

Groundwater sampling has identified benzene, naphthalene, lead, total chromium and hexavalent chromium at concentrations greater than the PADEP Non-Residential Used Aquifer Groundwater MSCs which have all been delineated to the Used Aquifer MSC. Based on the sampling results, this document proposes that SSS will be used for these COCs with pathway elimination consisting of an EC.

Soil gas was evaluated through the collection of soil gas samples and a comparison of soil and groundwater sampling results to the PADEP Non-Residential Vapor Intrusion (VI) Screening Values (SVs) (PADEP 2022a). As part of the warehouse construction during Site redevelopment, a passive sub-slab depressurization system (SSDS) will be installed as a proactive vapor intrusion mitigation measure to address soil beneath the building that contains COC concentrations greater than VI SVs.

It is anticipated that potentially complete exposure pathways associated with the Site will be eliminated by the Activity and Use Limitations (AULs) that will be memorialized in the EC for the Site, and that the Site will be in attainment with a combination of PADEP SHS (PADEP 2021b) and SSS (pathway elimination).

1.2 Public Involvement

In response to the revised Act 2 NIR, the City of Philadelphia requested that Alliance prepare a Public Involvement Plan (PIP). A draft PIP was prepared and reviewed by PADEP and the City of Philadelphia. The City of Philadelphia provided comments on the PIP on January 8, 2025 (City of Philadelphia 2025; Appendix A) during preparation of this RIR/Cleanup Plan and a revised PIP was provided to the City on January 21, 2025. Additional requests were received (Appendix A) and the final version of the PIP was sent to the City on February 13, 2025, and is included as Appendix B. The PIP establishes several public involvement opportunities, including:

- Public meetings, near the site
- Maintenance of a site mailing list
- Establishment of an online information repository for public access of documents
- Designation of a contact person for community questions

In accordance with the PIP, a public meeting will be held as described in Appendix B, following the 30-day public comment period for this RIR/Cleanup Plan. The following topics will be discussed in the meeting:

- Location and concentration of COCs identified at the Site;
- Measures that will be implemented to protect the community;

- Remedial measures that will be implemented to address COCs; and
- Procedures to be implemented during redevelopment to minimize dust and control erosion.

Notification of the date and location of the public meeting will be published in the Philadelphia Inquirer at least 30 days in advance of the meeting.

1.3 Site Description

The Site subject to the Act 2 case is located at 1630-1646 South 51st Street in Philadelphia, Pennsylvania. The Site, including the area where the former ASTs were located, occupies an approximately 12-acre parcel located south of 51st Street in an industrial/commercial section of Philadelphia.

At the time of purchase by Alliance, there were approximately 2,100 square feet of improvements onsite: an approximately 1,000-square-foot garage/electrical building, an approximately 750-square-foot guard house, and an approximately 350-square-foot miscellaneous structure. A canopy was also present in the fueling area. The ASTs were demolished by PBF Logistics. All former improvements have been demolished. The remainder of the Site currently consists of gravel and fill areas where the ASTs were formerly located. An oil-water separator remains onsite (Figure 2). Historical aerial photographs since 1992 are presented in Appendix C.

It appears that the 500-year floodplain encroaches slightly onto the northeastern and eastern portions of the Site (Environmental Data Resources Inc. [EDR] 2021). The Schuylkill River is located approximately 100 feet to the east of the northeastern portion of the Site. The topography of the Site slopes toward the river, with elevations ranging from approximately 29 feet to 12 feet above mean sea level.

Eight monitoring wells (MW-1 through MW-5 and MW-7 through MW-9) are currently located onsite. A Site map showing property boundaries and pertinent current and former Site features is included as Figure 2.

1.4 Surrounding Area

The Site is on County Parcel Identification No. 884217325, in an industrial/commercial section of Philadelphia. The Site is bordered:

To the north by South 51st Street, beyond which is an abandoned industrial property;

To the south by railroad tracks, beyond which is Bartram's Garden, a public park that includes the Bartram's Garden Mile Trail that was formerly Warner Cement Company;

To the east by South 51st Street and part of Bartram's Garden Mile Trail, beyond which is the Schuylkill River; and,

To the west by railroad tracks, beyond which is a Foundation Building Materials warehouse that was formerly an Industrial Food Truck, LLC corporate office, as well as Ryerson Steel.

The surrounding properties and land use are depicted on Figure 3.

1.5 Soil and Geology

Based on EDR's search of the United States Department of Agriculture's Soil Conservation Service files (EDR 2021), the predominant soil type in the area of the Site is Urban Land. This soil type has variable draining and

hydrologic properties. Soil boring logs completed by Arcadis during the investigation indicate the surficial geology to be light brown silty sand with mica clasts.

According to the Pennsylvania Geological Survey, the formation underlying the Site is the Wissahickon Formation, which is composed of a medium- to coarse-grained foliated crystalline rock ranging in texture from gneiss to schist. In the Delaware Valley, the Wissahickon Formation is typically a medium- to coarse-grained metamorphic rock characterized by abundant mica. It includes schistose beds in which mica is the predominant material, as well as other beds in which the rock has a gneissic character and where quartz, feldspar, and mica are the dominant minerals.

The Wissahickon Formation is varied in composition and degrees of metamorphism and dates to the Paleozoic Era. Structurally, it is frequently folded and commonly fractured by numerous joints. Its total thickness has been estimated to be between 5,000 and 8,000 feet.

Competent bedrock of the Wissahickon Formation was not encountered during the investigation activities. Historical and recent investigation locations are presented on Figure 4. Historical lithological information is limited for the Site. Available soil borings and inferred lithologic cross sections are provided in Appendix D.

1.6 Hydrogeology

Based on the investigation activities completed at the Site, groundwater is encountered in the overburden at depths between 3 and 13 feet below ground surface (bgs). Groundwater flow is to the east-northeast, toward the Schuylkill River. This stretch of the Schuylkill River is in the tidal zone, where there is a tidal swing of approximately 6 feet. Inferred groundwater elevation contour maps from the July 2022 and November 2024 events are presented on Figures 5 and 6, respectively. The horizontal groundwater gradient calculated from the November 2024 potentiometric surface map data is -0.0106 foot per foot for the overburden.

1.7 Site Investigation and Remediation History

The historical operations of the former ASTs and associated piping are the likely source of the petroleum-related COCs identified in soil and groundwater at the Site. Soil characterization activities were conducted in 2021, 2022, and 2023. Quarterly groundwater monitoring was initiated in 2022 as part of the Act 2 case. Historical and recent characterization and remedial activities are summarized in this RIR/Cleanup Plan. Additional details of historical activities can be found in the RSCR (Alliance 2023a) and are provided in Section 2 and Section 3 of this RIR/Cleanup Plan for soil and groundwater, respectively. Investigation locations are presented on Figure 4. Available survey data are presented in Appendix E. Available waste disposal documentation is presented in Appendix F.

Pertinent activities that have been conducted to date at the Site include:

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- During August and September 2021, PBF Logistics closed the ASTs on the Site with notice to PADEP (PBF Logistics 2021a). As part of the closure activities, PBF Logistics removed the liquids and sludge from the tanks and lines and collected AST closure confirmatory soil samples. All ASTs, their contents, and lines were removed from the Site.
- On August 17, 2021, PBF Logistics notified PADEP of a release of an unknown quantity of petroleum (PBF Logistics 2021b). Soil containing COCs from the release was subsequently excavated.

- In October 2021, Alliance conducted a Phase II environmental investigation as part of a potential acquisition of the Site. Soil borings were installed and sampled in the former tank containment areas. Existing monitoring wells (MW-1 through MW-4) were sampled. In addition, five temporary wells (TW-1 through TW-5) were installed and sampled (Alliance 2023a).
- On December 15, 2021, PBF Logistics submitted an AST Closure Report to PADEP (PBF Logistics 2021c).
- In December 2021, Alliance purchased the Site from PBF Logistics.

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- On February 9, 2022, Alliance submitted an NIR under the Act 2 Program to obtain an ROL for the COCs identified onsite (Alliance 2022a). The COCs in the NIR were based on the Phase II investigation results referenced above.
- In March 2022, Arcadis installed 17 soil borings in and around Tank Containment Area 1 and installed three monitoring wells (MW-7 through MW-9) to delineate COCs in groundwater.
- In April 2022, Arcadis began a quarterly groundwater sampling program at the Site. Sampling events were completed in July 2022, October 2022, January 2023, April 2023, July 2023, October 2023, and January 2024. The groundwater samples were analyzed for volatile organic compounds (VOCs) and filtered lead. Sampling for hexavalent chromium was initiated in April 2024, as discussed later in this section. Groundwater sampling results through November 2024 are incorporated in this RIR/Cleanup Plan.
- On May 25, 2022, Arcadis collected seven soil gas samples, SG-1 through SG-7, from the Site at the locations of borings that had elevated photoionization detector (PID) readings during soil investigation activities (soil borings SB-103, SB-104, SB-105, SB-106, SB-204, SB-206, and SB-207).
- On November 3, 2022, Arcadis (on behalf of Alliance) submitted an SCR to fulfill PADEP requirements (Alliance 2022b). On February 2, 2023, PADEP issued a letter disapproving the November 2022 SCR (PADEP 2023a). A copy of the PADEP letter is provided in Appendix A.
- In March 2023, Arcadis advanced 19 soil borings (2040-P2, 1043-P4, 1043-P5, and SB-301 through SB-316) to delineate the extent of COCs in soil at the Site for both the AST and Act 2 cases. The analysis for each boring correlated to the COCs that potentially would be in the soil in that area.
- On June 27, 2023, Arcadis (on behalf of Alliance) submitted an RSCR to PADEP (Alliance 2023a).
- PADEP approved the RSCR on September 27, 2023 (PADEP 2023b). A copy of the PADEP letter is provided in Appendix A**.**
- On November 27, 2023, Arcadis (on behalf of Alliance) submitted a RAP for the AST case to PADEP (Alliance 2023b).
- PADEP approved the RAP on February 22, 2024 (PADEP 2024). A copy of the PADEP letter is provided in Appendix A**.** Quarterly RAPRs are submitted in accordance with the RAP to address the AST-related COCs. These results are also summarized herein for completeness.
- In April 2024, yellow-colored water was discovered leaving the Site, near the Bartram's Garden Mile Trail, by the Philadelphia Water Department (PWD). The PWD sampled the water and reported that it contained a synthetic dye. Alliance was advised of this on April 9, 2024 by Tridung Tran of PWD.

- On April 29, 2024, Arcadis sampled the surface water onsite to evaluate the potential contaminants and submitted the samples to laboratories for analysis for VOCs, semi-volatile organic compounds (SVOCs), and dyes (fluorescein, eosine and rhodamine WT, sulforhodamine B, and pyranine dyes) based on the information provided by PWD. No dyes were detected in the sample. No VOCs other than a low level of acetone were detected in the sample. Similarly, only estimated concentrations below laboratory reporting limits of bis(2-ethylhexyl) phthalate, benzo(b)fluoranthene, and benzo(k)fluoranthene were detected in the SVOC analyses. Arcadis also performed some field screening tests using field test strips. During these tests, the presence of chromate was identified. Arcadis then submitted a sample of the water (unfiltered) to a laboratory and confirmed that total chromium was present in the water.
- On May 30, 2024 and June 7, 2024, Arcadis conducted groundwater sampling for total and hexavalent chromium. Soil borings, test pits, and temporary wells also were installed and sampled. On June 6, 2024 a call with PADEP was conducted to discuss conditions and next steps, later summarized in a June 10, 2024 email to the PADEP (Appendix A).
- On July 3, 2024, Arcadis installed test pits onsite and sampled soil for total and hexavalent chromium. A detailed summary of the findings were provided to PADEP in a July 11, 2024 email (Appendix A).
- On July 22, 2024, Arcadis and PADEP collected split samples from the soil and sediments along Bartram's Garden Mile Trail for VOCs, SVOCs, metals, and total and hexavalent chromium. In addition, split surface water samples were collected from the Schuylkill River (see Section 5). The sampling was performed as discussed in a virtual meeting with PADEP on July 18, 2024.
- On July 30, 2024, a revised Act 2 NIR was submitted to PADEP to indicate a combination of standards and include total chromium and hexavalent chromium on the COC list.
- On July 30, 2024, Alliance participated in a virtual meeting with PADEP to review the sediment and soil removal activities completed along Bartram's Garden Mile Trail, fortification and construction of additional berms onsite in the drainage swale, installation of additional silt fencing, and follow up actions.
- On August 2, 2024, Arcadis conducted additional surficial soil sampling onsite for total and hexavalent chromium.
- On August 6, 2024, Arcadis recollected soil/sediment samples along Bartram's Garden Mile Trail for total and hexavalent chromium.
- On August 13, 2024, Arcadis and PADEP collected additional split soil samples along Bartram's Garden Mile Trail for total and hexavalent chromium. In addition, split samples were collected from standing water onsite for total and hexavalent chromium.
- On August 21, 2024, Alliance participated in a virtual meeting with PADEP to review the soil sampling results, presence of offsite sources of total and hexavalent chromium not related to the Site, stabilization and grading of the Site, Site redevelopment plans, and the Act 2 schedule.
- On August 23, 2024, Arcadis conducted groundwater sampling for total and hexavalent chromium for all monitoring wells.
- On September 16, 2024 and September 17, 2024, Arcadis conducted additional soil sampling along Batram's Garden Mile Trail and the rail line embankment for total and hexavalent chromium, focusing on upgradient areas and non-Site sources.

- On October 3, 2024, Alliance participated in a virtual meeting with PADEP, where addiitonal data were discussed and a path forward was agreed upon. PADEP requested that two full rounds of groundwater sampling be conducted to include total and hexavalent chromium and that results be reported in this RIR/Cleanup Plan. PADEP indicated that two additional rounds could be conducted to demonstrate attainment, and results could be presented in an RIR Addendum. The redevelopment status, Public Participation Plan, presence of offsite sources of total and hexavalent chromium not related to the Site, and the Act 2 schedule also were discussed in the meeting.
- On November 20, 2024 Alliance participated in a virtual meeting with PADEP to review additional soil sampling required, Act 2 schedule, Public Participation Plan, and a Human Health Risk Assessment for locations along Bartram's Garden Mile Trail.
- On November 21, 2024, Arcadis conducted additional groundwater sampling for total and hexavalent chromium. Additional details were provided to PADEP in a December 10, 2024 email (Appendix A).
- On January 8, 2025, additional soil samples were collected at the Site to complete the delineation of total and hexavalent chromium to the property boundaries.

Additional information regarding total and hexavalent chromium and associated sampling activities is discussed in Section 1.8.5 and Section 5.

This RIR/Cleanup Plan is submitted as part of the Act 2 case to address all COCs at the Site, including the petroleum-related COCs associated with the AST case.

1.8 Summary of Areas and Constituents

For the purposes of summarizing and reviewing the data, the Site has been separated into four areas: three tank containment areas and other Site areas. The three tank containment areas are associated with the AST case as well as the Act 2 case. The other Site areas are associated only with the Act 2 case. The COCs for each area are based on the historical contents of the tanks as well as the constituents identified during the due diligence and Act 2 investigation activities performed at the Site. The tank containment areas and investigation sampling locations are illustrated on Figure 4. Chromium-related evaluations are Site wide and are discussed separately in Section 1.8.5.

1.8.1 Tank Containment Area 1

Tank Containment Area 1 formerly included tanks TK-7750 and TK-7551 (PADEP identification numbers [IDs] 050A and 051A, respectively). These tanks historically stored gasoline (assumed to be both leaded and unleaded based on the age of tanks), diesel fuel, and fuel oil No. 2. Sampling requirements in this containment area included the following from the PADEP Short List for Petroleum Products: Leaded Gasoline, Unleaded Gasoline, Diesel Fuel, and Fuel Oil No. 2. In addition, Arcadis performed sampling for VOCs and SVOCs during the due diligence and Act 2 investigation activities.

1.8.2 Tank Containment Area 2

Tank Containment Area 2 formerly included tanks TK-649, TK-1043, and TK-1044 (PADEP IDs 049A, 042A, and 044A, respectively). These tanks historically stored fuel oil No. 2. Sampling requirements in this containment area included Fuel Oil No. 2 from the PADEP Short List for Petroleum Products. In addition, Arcadis performed sampling for lead during the due diligence and Act 2 investigation activities.

1.8.3 Tank Containment Area 3

Tank Containment Area 3 formerly included tanks TK-941, TK-1248, TK-2040, TK-2045, and TK-4847 (PADEP IDs 041A, 048A, 040A, 045A, and 047A, respectively). These tanks historically stored fuel oil no. 2. Sampling requirements in this containment area included Fuel Oil No. 2 from the PADEP Short List for Petroleum Products. In addition, Arcadis performed sampling for lead during the due diligence and Act 2 investigation activities.

1.8.4 Other Site Areas

The truck loading area and paved parking areas to the west of Tank Containment Area 1 were investigated during the Act 2 case. Arcadis performed sampling in these areas for VOCs.

In addition, during the due diligence investigation activities, Arcadis sampled an approximately 20,000- to 25,000-cubic-yard soil pile that was previously located at the Site east of Tank Containment Area 1. The soil pile was sampled following PADEP's Management of Fill Policy, dated January 16, 2021. The samples were analysed for VOCs, SVOCs, polychlorinated biphenyls (PCBs), and total metals.

1.8.5 Impacts due to Historical Fill

As described in Section 1.6, yellow water was discovered leaving the Site in April 2024 by PWD. Heavy rains led to offsite runoff at Bartram's Garden Mile Trail immediately outside the gate at the southeast corner of the Site, and the prescence of yellow water was reported to PADEP. The water was identified in a low lying area along the eastern portion of the site (discussed further in Section 5). As a follow up, Arcadis performed various investigation activities to characerize the water and identify the source. In addition, as an interim immediate measure Alliance constructed soil berms across the low lying area in the southern drainage swale to minimize any discolored water from leaving the Site. Arcadis conducted onsite surface water sampling for VOCs, SVOCs and dyes in April 2024. In addition, field screening of the water for various parameters identified the presence of chromates. Subsequent laboratory analysis identified total and hexavalent chromium in the water.

Following the identification of hexavalent chromium in the surface water, Alliance conducted measures to prevent surface water runoff from leaving the site. In April 2024, Alliance constructed several berms using soil and plastic in the drainage swale that previously had discharged onto the Bartarm's Mile Trail. In July 2024, the berms were fortified with stone rip rap and stone also was placed along the drainage swale. Since the completion and fortification of the berms, no surface water has left the site.

After identifying the presence of total and hexavalent chromium in water, Arcadis reviewed existing soil borings for signs of staining or impacts indicative of chromium. Using this information, Arcadis performed additonal investigation activities including groundwater sampling, soil borings, test pits and temporary wells from May through November 2024. During these investigation activities, historic fill was identified within the Site and on the perimeter of the Site indicating that this general area of Philadelphia had been filled prior to development (see chromium correspondences in Appendix A). Test pits installed within Tank Contaiment Area 1 and on the southern property boundary identified white/yellow fill material ranging in thickness from a few inches up to approximately 14 feet on the southern property boundary.

From July through September, Arcadis and PADEP collected samples onsite and along the area of Bartram's Garden Mile Trail where staining was observed from the Site to evaluate potential impacts from the previous stormwater runoff. Water samples also were collected from the Schuylkill River. Alliance removed impacted sediments via scraping along the the subject areas in August and September. Following the removal of sediments in September, additional sampling was performed to evaluate other sources of chromium that could be

affecting sediments (Figure 4). The sampling identified anthropogenic background sources (i.e. presence of legacy fill material) on the railroad property and along the Bartram's Garden Mile Trail property. In addition, tidal fluctations along the banks of the Schuylkill River were identified as affecting the sediments in the area.

In conjunction with the investigation activities, Arcadis also researched historical records, including topographic maps and aerial photographs, to determine if this area of Philadelphia was historically filled with material, since the presence of chromium is not related to the previous petroleum terminal operations or the historic operations, lumber and cardboard manufacturing, performed at the Site. The historic USGS maps for the Site were reviewed to evaluate the historic filling of the area. Because of the contour interval on the USGS maps, the maps do not show specific filling on the site. However, the presence of the rail line as early as 1891 which is elevated above the surrounding land, indicates that filling occurred in this area along the rail line prior to its construction. The rail line very likely has the same fill material along its embankment as on the Alliance property. The elevated rail line runs along the length of the southern border of the Site which is also parallel to the drainage swale. Stormwater runoff from the rail line discharges onto the site and into the drainage swale. Prior to Alliance's construction of berms, this runoff would have also discharged onto the Bartram's Mile Trail. Also, in comparing USGS maps from 1894 to 1949 it is apparent that wetlands areas to the south of the Site have been filled and roadways were installed, indicating that the areas along the river were filled. In addition, historic aerial photos indicate that filling of the Site occurred prior to the installation of tanks TK-7550 and TK-7551. Aerial photograhs (Appendix C) circa 1920s show a sand and gravel operation and low lying area along the river on what is now Bartram's Garden. At least parts of Bartram's Garden (if not all) were filled after the sand and gravel operations ceased. The aerial photograph also shows the southwest area of the Site which is low lying and receiving runoff from the foundry to the west. This information together with the presence of the yellow/white fill layer identified in the soil along the southern property boundary of the Site indicates that the area was filled in the past.

Based on the investigation activities and research, hexavalent chromium is present in soil and groundwater onsite due to the historical placement of fill onsite and offsite in the early 1900s. The presence of chromium on Bartram's Garden Mile Trail also is expected to be due to historic filling and other contributing factors such as historical river deposits and tidal influence of the river. As shown in historical aerial photographs (Appendix C), the Site was historically in a low lying topographical area and received run-off from the adjacent property occupied by Ryerson Steel. Additional information regarding total and hexavalent chromium onsite and offsite, and associated investigtation and remediation activities is discussed in Section 5.

2. Soil Characterization

In 2021, the prior property owner, PBF Logistics, closed the ASTs with notice to PADEP (PBF Logistics 2021a). PBF Logistics retained Stantec Consulting Services, Inc. (Stantec) to perform the closure activities. As part of the closure activities, PBF Logistics removed all liquids and sludge from the ASTs and lines and then removed the ASTs and lines. After tank and line removal, Stantec sampled soil under the tanks and associated piping. These activities were performed from early August to the end of September 2021. PBF Logistics submitted an AST System Closure Notification Form to PADEP on December 15, 2021 (PBF Logistics 2021a).

In October 2021, prior to the acquisition of the property, Alliance retained Arcadis to perform due diligence investigation activities that included soil and groundwater sampling. Following Alliance's purchase of the property in December 2021, Arcadis performed soil sampling associated with the Act 2 Program and AST case from March 2022 to January 2024. Additional details related to soil sampling are provided in the following sections.

2.1 Sample Collection

In August and September 2021, Stantec performed soil sampling activities in accordance with applicable PADEP AST Closure Guidance, with the exception of the tank bottom sampling conducted at one AST (former tank TK-7551). Stantec initially attempted to collect the tank bottom samples via hand auger after removal of the tank but encountered refusal. Stantec mobilized a mini excavator to collect the tank bottom samples and identified a compacted concrete layer at approximately 2 to 2.5 feet bgs. Stantec then mobilized a full-size backhoe to attempt to collect the tank bottom samples at the prescribed depth of 5 feet bgs, but they again encountered refusal and could not collect the samples. Stantec then contacted PADEP for guidance on collecting the tank bottom samples based on the field conditions and refusal encountered. PADEP agreed that collection of the tank bottom soil samples from just above the concrete layer at the location of former tank TK-7551 was acceptable.

In October 2021, during the due diligence review of the Site, Arcadis performed additional soil sampling activities to delineate impacts identified in the soil from the AST closure sampling and to evaluate the presence of other COCs at the Site. In addition, Arcadis sampled the large soil pile onsite using soil borings and test pits following PADEP's Management of Fill Policy to evaluate the use of the soil as fill at the Site.

In March 2022, Arcadis performed soil sampling in Tank Containment Area 1 to delineate soil exceedances identified during the due diligence sampling activities. Arcadis collected additional soil samples in March and June 2023 to further delineate Tank Containment Areas 1, 2, and 3. During the January 2024 groundwater sampling event, Arcadis collected a final delineation soil sample within Tank Containment Area 1.

The majority of the soil samples collected by Arcadis were from borings installed by Hawk Drilling, Inc. (Hawk), a Pennsylvania-licensed drilling company located in Hampton, New Jersey, using Geoprobe® direct-push drilling techniques. Arcadis collected the test pit soil samples using a backhoe and Encore samplers and collected the delineation soil sample in January 2024 from a boring installed with a hand auger. During the soil sampling, Arcadis personnel screened each boring for the presence of COCs using a PID and visual/olfactory observations. After completion of the soil sampling, Arcadis backfilled the boreholes with the drill cuttings.

In summary, Arcadis and/or Stantec collected 74 soil samples from Tank Containment Area 1, 48 soil samples from Tank Containment Area 2, 88 soil samples from Tank Containment Area 3, and 30 soil samples (including composites) from the other Site areas. The sampling locations are illustrated on Figure 4, and the boring logs are provided in Appendix D.

2.2 Analytical Results

2.2.1 Tank Containment Area 1

Low levels of various VOCs were detected in the samples. With the exception of benzene and naphthalene, the concentrations were less than the representative soil MSCs. The concentrations of benzene that were greater than the MSCs ranged from 0.56 milligram per kilogram (mg/kg) in UNK-ST-N (3 feet bgs) to 1.8 mg/kg in soil borings SB-105 (4.5-5 feet bgs) and SB-213 (4-4.5 feet bgs). The concentrations of naphthalene that were greater than the MSC ranged from 38 mg/kg in soil boring SB-215 (4.5-5 feet bgs) to 1,700 mg/kg in soil boring SB-213 (4-4.5 feet bgs).

Additionally, low levels of SVOCs were detected in the samples. Only biphenyl and bis(2-chloroethyl)ether were detected at concentrations greater than their representative soil MSCs. Biphenyl was detected in soil boring SB-103 (4.5-5 feet bgs) at an estimated concentration of 2.8 mg/kg, and bis(2-chloroethyl)ether was detected in soil boring SB-103 (4.5-5 feet bgs) at 1.2 mg/kg.

Lead was also detected in the AST closure sampling conducted by Stantec at concentrations greater than the PADEP Non-Residential Soil MSCs. The concentrations of lead that were greater than the Non-Residential Soil MSCs ranged from 500 mg/kg at Pipe 81 to 750 mg/kg at Pipe 70.

The soil sampling results for Tank Containment Area 1 are summarized in Tables 1 and 2. The laboratory reports are provided in Appendix G.

2.2.2 Tank Containment Area 2

Low levels of various VOCs and SVOCs were detected in the samples; however, none of the concentrations exceeded the representative soil MSCs.

Lead was detected in various samples. The concentrations of lead that were greater than the representative soil MSCs ranged from 460 mg/kg at Pipe 51 (2 feet bgs) to 2,100 mg/kg at 1044-P4 (3 feet bgs).

The soil sampling results for Tank Containment Area 2 are summarized in Tables 3 and 4. The laboratory reports are provided in Appendix G.

2.2.3 Tank Containment Area 3

Low levels of various VOCs were detected in the samples. With the exception of benzene, the concentrations were below the representative soil MSCs. Benzene was detected at one location, Pipe 29 (2 feet bgs), that exceeded the MSC, with a concentration of 0.66 mg/kg.

Lead was detected in various samples. The concentrations of lead that were greater than the representative soil MSCs ranged from 560 mg/kg at 941-Center (5 feet bgs) to 1,520 mg/kg at Pipe-22 (13-13.5 feet bgs).

The soil sample results for Tank Containment Area 3 are summarized in Tables 5 and 6. The laboratory reports are provided in Appendix G.

2.2.4 Other Site Areas

The samples collected from the soil pile had some detections of VOCs, SVOCs, PCBs, and metals. However, no concentrations were greater than the PADEP Non-Residential Soil MSCs.

Low levels of various VOCs were detected in the samples collected from the truck loading area and paved parking areas to the west of Tank Containment Area 1. With the exception of benzene, the concentrations were below the representative soil MSCs. The concentrations of benzene that were greater than the Non-Residential Soil MSCs ranged from 0.59 mg/kg in soil boring SB-204 (8.5-9 feet) to 2.6 mg/kg in soil boring SB-202 (8.5-9 feet).

The soil sampling results for these other Site areas are summarized in Tables 7, 8 and 9. Soil sampling locations with MSC exceedances are presented on Figure 7. The laboratory reports are provided in Appendix G. Soil sampling that was conducted to address total and hexavalent chromium is further discussed in Section 5.

2.3 Conclusions

The soil investigation activities in the tank containment areas, truck loading area, and paved areas west of Tank Containment Area 1 identified benzene, naphthalene, lead, biphenyl, and bis(2-chloroethyl)ether at concentrations greater than the PADEP Non-Residential Soil-to-Groundwater screening values. Only two concentrations, lead in Area 3 (Pipe 22 at 2 feet bgs in August 2021) and naphthalene in Area 1 (soil boring SB-213 at 4 to 4.5 feet bgs in March 2022), were also greater than their respective Direct Contact screening values. The extent of each concentration was delineated horizontally and vertically to the water table. It is currently proposed that an EC and engineering controls will be used to address the exceedances, as discussed in Section 9.

The samples collected from the soil pile had some detections of VOCs, SVOCs, PCBs, and metals. However, no concentrations were greater than the PADEP Non-Residential Soil MSCs. During the recent redevelopment activities, some of the large soil stockpile has been distributed across the Site to fill and grade the former tank containment areas and construct berms to prevent offsite stormwater run-off. Soil containing COCs will be moved to a location beneath the proposed warehouse building when redevelopment activities resume onsite, as discussed further in Section 9.

3. Groundwater Characterization

In October 2021, groundwater investigation activities were initiated at the Site as part of due diligence activities. Later, as part of the Act 2 investigation activities, Hawk rehabilitated one existing monitoring well onsite and installed three additional permanent monitoring wells under Arcadis supervision. Following installation of the monitoring wells, Arcadis sampled the existing and newly installed wells during eight quarterly events from April 2022 to January 2024. Additional sampling related to chromium began in April 2024, as discussed in Section 5.

3.1 Temporary Well Installation and Sampling

3.1.1 Sample Collection

On October 22, 2021, Arcadis supervised the installation of five temporary monitoring wells (TW-1, TW-2, TW-3, TW-4, and TW-5) at the Site. Hawk installed the temporary monitoring wells using Geoprobe direct-push drilling techniques to investigate whether the exceedances of the PADEP Non-Residential Soil-to-Groundwater screening values in soil samples had resulted in groundwater impacts. Temporary wells TW-1 to TW-3 were installed at the locations where the highest soil concentrations had been detected for each constituent during the AST closure activities. Temporary well TW-1 was installed at previous soil sampling location 7551-P6, TW-2 was installed at soil boring location 2040-P2, and TW-3 was installed in the vicinity of Pipe 7 and Pipe 8. Temporary wells TW-4 and TW-5 were installed along the anticipated downgradient Site boundary (Figure 4).

Hawk installed each well, with the exception of TW-1, to a depth of 15 feet bgs. Well TW-1 was installed to a depth of 10 feet bgs due to a shallower depth to groundwater. The wells were constructed with 10 feet of 1-inch pre-packed slotted screen installed between 5 and 15 feet bgs (TW-1 was screened from grade to 10 feet bgs), and 1-inch riser installed from 5 feet bgs to grade.

During the installation of the temporary wells, Arcadis personnel screened each boring for the presence of COCs using a PID and visual/olfactory observations. TW-1 had elevated PID readings as high as 550 parts per million as well as petroleum odors. The remaining temporary wells showed no signs of obvious contamination or odors, and the PID readings were minimal. Groundwater was encountered at a depth ranging from approximately 3 feet bgs in TW-1 to 13 feet bgs in TW-3.

Arcadis collected groundwater samples from the temporary wells using a peristaltic pump and dedicated tubing. The wells were purged prior to sampling, and typical field parameters, including but not limited to pH, oxidation-reduction potential (ORP), temperature, turbidity, dissolved oxygen, and specific conductance, were recorded for the wells. Arcadis collected samples after the water quality parameters had stabilized. Samples collected for metals analysis were field filtered with a 0.5-micron filter. During the sampling activities, the groundwater in TW-1 and TW-5 was yellow in color, even after the samples were filtered, and it had a slight odor. It was not possible to sample TW-4 because the well did not produce water over a 72-hour time period. The samples were submitted on ice and under chain-of-custody protocol to a Pennsylvania-certified laboratory for analysis for VOCs and lead.

Following the completion of the well sampling, Arcadis removed the temporary well screens and risers and backfilled the borings with the drill cuttings. The sampling locations are illustrated on Figure 4, and available well construction logs are provided in Appendix D. Monitoring well purge and sampling logs are provided in Appendix H.

3.1.2 Analytical Results

The VOC analyses identified low levels of various compounds in temporary wells TW-2, TW-3, and TW-5. The concentrations were less than the Non-Residential Used Aquifer Groundwater MSCs. In TW-1, benzene was detected at a concentration greater than the MSC. Benzene was detected in the initial analysis at 65 micrograms per liter (µg/L) and in the contingent analysis at 66 µg/L. Both concentrations exceeded the groundwater MSC of 5 µg/L. The concentration of benzene in the other temporary wells ranged from an estimated 0.24 µg/L in TW-3 to 0.32 µg/L in TW-5.

The analysis for filtered lead identified concentrations ranging from an estimated 0.3553 µg/L in TW-5 to 9.312 µg/L in TW-2. The initial analysis of the sample from TW-2 for lead identified an estimated 0.9818 µg/L, but the contingent analysis identified 9.312 µg/L, which is greater than the groundwater MSC of 5 µg/L.

The sampling results for the temporary wells are summarized in Table 10. The laboratory reports are provided in Appendix G.

3.2 Monitoring Well Installation and Sampling

Monitoring wells MW-1 through MW-6 were installed by PBF Logistics (Figure 4). Well construction logs were not available, and screened intervals presented in Table 11 for these wells were determined based on a visual survey utilizing a downhole camera. An estimated depth to top of screen was derived by using the surveyed elevations and the measurements from the camera survey to determine where the well screen started.

3.2.1 Monitoring Well Installation

On March 16, 2022, under the supervision of Arcadis, Hawk installed three additional permanent monitoring wells (MW-7, MW-8, and MW-9) at the Site to determine groundwater flow across the Site and to characterize groundwater conditions. Monitoring well MW-7 was installed in the vicinity of TW-1, adjacent to former tank TK-7551, to further assess the benzene concentrations in this area. Monitoring well MW-8 was installed upgradient of monitoring well MW-7 along the western Site boundary. Monitoring well MW-9 was installed along the southeastern Site boundary in the anticipated downgradient direction of temporary well TW-2.

Monitoring wells were installed using a hollow-stem auger drill rig with 8-inch augers. The total depth of the monitoring wells was determined by the depth of groundwater observed at each location during the drilling activities. The total depths of the monitoring wells ranged from 15 feet bgs at monitoring well MW-7 to 22 feet bgs at monitoring well MW-8. The monitoring wells were completed with between 12 and 17 feet of 0.010 2-inch-diameter polyvinyl chloride (PVC) slotted screen set across the water table. Two-inch PVC risers were installed to the ground surface. A filter pack consisting of No. 2 sand was placed in the annular space around the monitoring well screens, and a 2-foot bentonite seal was installed over the top of the filter pack. A grout slurry was installed on top of the bentonite seal to fill the annular space to the ground surface. A flush-mount steel manhole and concrete pad were installed to complete the monitoring well at ground surface. The monitoring wells subsequently were developed by pumping and surging until the water was free of fine particles. In addition, existing monitoring well MW-5, which could not be sampled during the due diligence activities, was re-developed and cleared of sediments such that it could be sampled during subsequent events.

Following installation, DPK Consulting, a Pennsylvania-licensed surveying company located in Middlesex, New Jersey, surveyed the new monitoring wells and the existing monitoring wells. A summary of available construction details for the monitoring wells is provided in Table 11. Available survey details are presented in Appendix E.

3.2.2 Sample Collection

During the due diligence field activities conducted in October 2021, Arcadis identified six permanent monitoring wells at the Site. Four monitoring wells (MW-1 through MW-4) were found to be functioning and were sampled. It was not possible to sample two monitoring wells (MW-5 and MW-6). Monitoring well MW-5 was dry when gauged, and PBF Logistics had previously abandoned monitoring well MW-6. The four functioning monitoring wells were sampled to assist in evaluating groundwater conditions.

Following the installation of the new permanent wells as part of the Act 2 investigation activities, Arcadis initiated quarterly groundwater monitoring at the Site in April 2022. Eight Site-wide quarterly sampling events were completed, with the most recent performed in January 2024.

During each groundwater sampling event, Arcadis collected the samples using the United States Environmental Protection Agency (USEPA) low-flow sampling techniques. Prior to beginning the groundwater sampling activities, Arcadis gauged groundwater levels to determine the groundwater flow direction. The monitoring wells then were purged at a rate of approximately 0.1 gallon per minute with a submersible centrifugal pump (ProActive Steel Monsoon Pump™ or equivalent). Water quality parameters, including temperature, pH, conductivity, dissolved oxygen, ORP, and turbidity, were collected using a Horiba U-52 water quality meter and flow-through cell every 5 minutes. After the water quality parameters had stabilized, the tubing was disconnected from the Horiba U-52, and the samples were collected. The monitoring well purge logs are provided in Appendix H.

The groundwater samples were submitted under chain-of-custody protocol to Alpha Analytical, a Pennsylvania-certified laboratory, for analysis. The groundwater samples from the 2021 due diligence activities were analyzed for VOCs and SVOCs. The groundwater samples from the Act 2 investigation were analyzed for VOCs and lead. Quality assurance/quality control samples consisted of the collection of one duplicate sample, one field blank, and one trip blank.

3.2.3 Analytical Results

No SVOCs were detected in groundwater during the monitoring well sampling performed in 2021 as part of the due diligence activities. Low levels of VOCs were detected, but concentrations were less than their respective groundwater MSCs.

With the exception of benzene and naphthalene, low levels of VOCs were detected in groundwater at concentrations less than the groundwater MSCs during the Act 2 quarterly monitoring. Benzene was detected in one monitoring well (MW-7) at concentrations greater than the MSC of 5 µg/L. The concentrations of benzene in downgradient monitoring wells MW-1 and MW-2 were consistently less than the MSC.

During two sampling events (April 2022 and April 2023), naphthalene was detected in groundwater sampled from monitoring well MW-9 at concentrations of 150 µg/L and 120 µg/L, respectively, which were greater than the groundwater MSC of 100 µg/L. In the other monitoring events, the naphthalene concentration was less than the MSC.

Lead also was detected in monitoring well MW-9 at concentrations greater than the groundwater MSC of 5 µg/L. The concentrations ranged from 15.33 µg/L to 65.15 µg/L and decreased during the monitoring period. The concentrations of lead in the other onsite monitoring wells were less than the groundwater MSC.

COCs present at concentrations greater than their respective MSCs during the most recent quarterly Site-wide event (January 2024) are presented on Figure 8 (benzene) and Figure 9 (filtered lead).

Total and hexavalent chromium were incorporated into groundwater sampling in 2024 and are also present at concentrations greater than the MSC of 100 µg/L. Groundwater isopleths for filtered total chromium and filtered hexavalent chromium from the last sampling event (November 2024) are presented on Figure 10 and Figure 11, respectively. Sampling for total and hexavalent chromium is ongoing. Section 5 provides additional information related to chromium sampling and analysis.

The monitoring well sampling results are summarized in Table 12. The laboratory reports are provided in Appendix G.

3.3 Groundwater Statistical Analysis

To evaluate dissolved-phase COC concentrations, Mann-Kendall (MK) trend analyses were performed on groundwater quality data following USEPA (2002, 2009) guidance. The MK trend test is a nonparametric test that identifies trends based on ranked data and is useful where large variations in the magnitude of concentrations may be present and otherwise influence a time-series trend analysis. The basic MK trend test involves listing the concentrations in temporal order and computing differences between a given measurement and earlier measurements. The test statistic (sum of trend) is the difference between the number of strictly positive differences and the number of strictly negative differences. If there is an underlying increasing trend, these differences will tend to be positive, indicated by a sufficiently large positive value of the test statistic. The p-value of the correlation provides a measure of the level of significance of the statistical test. Correlations are considered significant for p-values less than or equal to 0.05 (95 percent confidence level).

To be conservative, COC concentration trends in groundwater were evaluated at monitoring well locations with eight sampling events that exhibited a detected concentration of a COC greater than the MSC at least once since quarterly monitoring began in April 2022.

MK trends were run for the following:

- Benzene in monitoring well MW-7; and
- Naphthalene and filtered lead in monitoring well MW-9.

MK trends will be performed on total and hexavalent chromium following receipt of the next quarter of results.

A downward trend was confirmed in monitoring well MW-9 for lead. The analyses for benzene and naphthalene exhibited no significant trend. The Mann-Kendall graphs are provided in Appendix I.

3.4 Groundwater Fate and Transport Analysis

PADEP's Quick Domenico (QD) modeling tool was used to evaluate the downgradient extent of COCs in groundwater at concentrations greater than their respective MSCs during at least one sampling event. The QD model (Domenico 1987) calculates the concentration of a constituent in groundwater at any time and distance downgradient of a source area of known size for a plume traveling through unconsolidated saturated soil. The advection-based groundwater flow model allows for three-dimensional dispersion, first-order decay, and retardation. The model assumes a constant source, which typically results in the overestimation of plume size. Input parameters used in the model, and rationale for using those parameters, are provided in Appendix J. Default and literature values were used as inputs if site-specific information was not available, as detailed in Table J-1 of Appendix J.

Models were completed for lead, naphthalene, benzene, and hexavalent chromium. Maximum concentrations were used in the model, and monitoring wells with the highest concentrations were used as source wells in the model. Models were calibrated using field data where available and as appropriate. Total chromium was not modeled, as most or all the chromium appears to be hexavalent, and the modeling of the hexavalent chromium provides the worst-case scenario for chromium in groundwater.

The model determined that COCs would travel the following distances before achieving concentrations at or less than groundwater MSC.

- Lead: 105 feet from monitoring well MW-9;
- Naphthalene: 22 feet from monitoring well MW-9;
- Hexavalent chromium: 430 feet from monitoring well MW-4, and 420 feet from monitoring well MW-7; and,
- Benzene: 265 feet from monitoring well MW-7.

Modeled extents of benzene, lead, and hexavalent chromium at concentrations greater than their respective MSCs are presented on Figure 12. COCs modeled from monitoring well MW-9 and MW-4 are expected to travel parallel to the southern Site boundary and the rail line, toward monitoring well MW-3. Lead and naphthalene are expected to attenuate prior to reaching monitoring well MW-4, which is consistent with field data. Hexavalent chromium is expected to attenuate several hundred feet prior to reaching monitoring well MW-1. COCs modeled from MW-7 are expected to generally travel toward monitoring well MW-2. Benzene and hexavalent chromium are expected to attenuate from this portion of the Site at least 200 feet prior to reaching the downgradient Site boundary. Based on observed groundwater flow directions onsite, Site COCs in groundwater are not expected to travel beyond the site boundaries or reach the Schuylkill River. The results of the modeling activities are discussed in more detail in Appendix J.

3.5 Conclusions

Eight quarterly groundwater monitoring events were performed from April 2022 to January 2024 for Site-related COCs (except total and hexavalent chromium). Only three COCs were detected at concentrations greater than their respective PADEP Non-Residential Used Aquifer Groundwater MSCs during quarterly monitoring. Benzene was detected in groundwater sampled from one monitoring well (MW-7), located in Tank Containment Area 1, at concentrations greater than the MSC during each sampling event. Benzene concentrations remained relatively stable throughout the monitoring program. The concentrations of benzene in groundwater sampled from downgradient monitoring wells MW-1 and MW-2 were less than the groundwater MSC.

Naphthalene was detected in groundwater sampled from one monitoring well (MW-9), located in Tank Containment Area 3, at a concentration greater than the groundwater MSC during two sampling events. The concentrations remained relatively stable throughout the monitoring program. The concentrations in the last three sampling events were less than the MSC.

In addition, lead was detected in groundwater in monitoring well MW-9 at concentrations greater than the groundwater MSC in each of the sampling events. A downward trend in concentration was identified during the monitoring program. The concentrations of lead in groundwater sampled from downgradient monitoring well MW-4 were less than the groundwater MSC. Lead concentrations do not extend offsite onto the adjacent railroad property.

Total chromium and hexavalent chromium were added to the COC list in May 2024 and included in sample analysis from monitoring wells MW-3, MW-4, MW-7, and MW-9 due to the yellowish water observed at these locations during

previous sampling events where chromium was confirmed to be present through field testing. Following the May 2024 event, the rest of the onsite monitoring wells were included in the sampling program. Total chromium and/or hexavalent chromium is present in concentrations greater than MSCs in monitoring wells MW-3, MW-4, MW-7, and MW-9. The chromium investigation is further discussed in Section 5.

It is currently proposed that an EC will be used to address the groundwater exceedances. Exposure pathways and controls related to groundwater are discussed in Section 7 and Section 9, respectively. Groundwater attainment is discussed in Section 9.5.

4. Soil Gas Investigation

4.1 Sample Collection

On May 25, 2022, Arcadis installed seven temporary soil gas sample points (SG-1 through SG-7) at the Site to investigate the presence of elevated PID readings and odors in the soil gas in the footprint of the proposed building.

The soil gas sample points were installed to a depth of 3 to 5 feet bgs, depending on the depth to groundwater in each of the borings. Each point was installed via manual direct-push techniques utilizing a slide hammer. A stainless-steel screen was deployed at the bottom interval, and ¼-inch-diameter Teflon™ tubing was connected to the screen and extended above grade.

Arcadis purged an approximately 200-milliliter volume from each soil gas sample point utilizing a pump set for low-flow purging. After purging, the valves on the Summa canisters were opened, and initial and final vacuum readings were recorded. Soil gas samples were collected using 2.7-liter Summa canisters with pre-set, laboratory-supplied, 15-minute flow regulators. After the collection of the soil gas samples, the stainless-steel screen and Teflon tubing were recovered, and the holes were backfilled with the cuttings. Soil gas sampling logs are included in Appendix H.

The soil gas Summa canisters were delivered under chain-of-custody protocol to Alpha Analytical, a Pennsylvania-certified laboratory, for analysis for VOCs via USEPA Method TO-15.

4.2 Analytical Results

Low levels of various VOCs were detected in soil gas samples. With the exception of benzene at one location, the concentrations were less than the PADEP Non-Residential Sub-Slab Soil Gas VI SVs. In soil gas sample point SG-5, benzene was detected at 4,340 micrograms per cubic meter (µg/m^3), which exceeds the Non-Residential Sub-Slab Soil Gas VI SV of 2,000 µg/m^3.

In addition, because it is proposed to use SSS soil remediation standards for benzene and naphthalene, the soil gas concentrations were evaluated relative to 1/10^{th} the VI SV for these compounds. The concentrations of naphthalene were less than the Site-Specific Sub-Slab Soil Gas VI SV. The benzene concentration in soil gas sample point SG-5 was greater than the Site-Specific Sub-Slab Soil Gas VI SV of 200 µg/m^3. The concentrations of benzene in the other samples were less than the Site-Specific VI SVs.

Samples from soil gas sample points SG-5, SG-6, and SG-7 had elevated method detection limits (MDLs) for several constituents as presented in Table 13, due to the dilution required by the elevated concentrations of non-target compounds in the samples. These non-target compounds are likely the source of the PID readings and odors observed during the soil sampling activities.

The sample results for the soil gas sample points are summarized in Table 13. The laboratory report is provided in Appendix G.

4.3 Conclusions

Only benzene was detected in soil gas in one location (soil gas sample point SG-5) at a concentration exceeding the Site-Specific Non-Residential VI SVs. Additional non-detected MDLs and reporting limits (RLs) were also

greater than the VI SVs. While only one round of soil gas samples was collected, a remedy will be implemented to address the pathway. Therefore, additional sampling is not warranted at this time.

Soil gas sample point SG-5 is in an area that is proposed to receive fill to bring the final grade up to the required elevation for redevelopment of the Site. In addition, as part of the warehouse construction, a passive SSDS will be installed as a proactive VI mitigation measure to address soil beneath the building that contains concentrations above the VI SVs. The Cleanup Plan is presented in Section 9.

5. Chromium Investigation

Following the discovery of yellow standing water at and adjacent to the Site in April 2024, Arcadis conducted an investigation for total and hexavent chromium that consisted of soil, seasonal standing water, surface water, and groundwater sampling activities. Sampling activities were focused onsite and offsite along Bartram's Garden Mile Trail receiving runoff from the drainage swale leaving the Site, where the presence of yellow water was discovered and reported to PADEP. Alliance and PADEP worked collectively to evaluate chromium in media in the area, and PADEP was informed of proposed activities and results as they became avaiable (Appendix A). Chromium investigation sampling activities consisted of the following:

- In April 2024, yellow water was discovered leaving the Site. As discussed in Section 1.6, Arcadis initially collected surface water samples (from standing pools of yellow water onsite) for analysis of VOCs, SVOCs and common fluorescent dyes (such as fluorescein, eosine, rhodamine WT, sulforhodamine B, and pyranine). The samples for VOCs and SVOCs were analyzed by Pace and the samples for dyes were analyzed by Ozark Underground Laboratory of Protem, Missouri. No VOCs other than a low level of acetone were detected in the samples. Similarly, only estimated concentrations below laboratory reporting limits of bis(2-ethylhexyl) phthalate, benzo(b)fluoranthene, and benzo(k)fluoranthene were detected in the SVOC analyses. No flourescent dyes were detected. A certificate of laboratory analysis are provided in Appendix G. Additonally, Arcadis performed some field screening tests where the presence of (hexavalent) chromate was identified. Arcadis subsequently sampled the pooled surface water in the low-lying areas onsite for chromium analyses.
- In May and June 2024, Arcadis collected total and hexavalent chromium samples from select monitoring wells onsite. Soil borings and temporary wells also were installed and sampled for total and hexavalent chromium.
- In July 2024, Arcadis installed test pits located along the southern Site boundary and sampled these for total and hexavalent chromium. Later in July, Arcadis and PADEP collected split samples for analysis to Pace (Alpha Analytical) of Mansfield, Massachusetts. Soil samples were collected along Bartram's Garden Mile Trail, and surface water split samples were collected from the Schuylkill River (Figure 4 and Figure 13). The samples were anlayzed for VOCs, SVOCs, metals, and total and hexavalent chromium.
- On July 30, 2024, a revised NIR was submitted to PADEP to indicate a combination of standards and include total chromium and hexavalent chromium on the COC list (Alliance 2024).
- In August 2024, Arcadis collected surficial soil samples onsite and sampled all monitoring wells for total and hexavalent chromium. Arcadis and PADEP recollected split samples in three locations and collected additonal split soil samples along Bartram's Garden Mile Trail. Split surface water samples were also collected from standing water pools onsite.
- In September 2024, Arcadis collected additional soil samples along Bartram's Garden Mile Trail, focusing on upgradient areas and sources not related to the Site.
- In November 2024, Arcadis sampled monitoring wells onsite for total and hexavalent chromium. During preparation of this RIR/Cleanup Plan, four rounds of groundwater have been collected (January, May, August, and November 2024) for total and hexavalent chromium analysis. Three of these (May 2024 to November 2024) have been consecutive quarters, and the fourth quarter event will be conducted in February 2025. PADEP has indicated that sampling can potentially cease after four quarterly events, pending results.

- In January 2025, additional chromium soil delineation sampling was completed, as discussed in the following section.

With the exception of the September 2024 soil sampling event, where samples were submitted to Eurofins Lancaster Laboratories Environmental Testing, LLC (Eurofins) of Lancaster, Pennsylvania, samples were submitted to Pace (Alpha Anayltical) for analysis of total chromium via USEPA Method 16010D (soil) and 6020B (soil and water) and for hexavalent chromium via USEPA Method 7196A (soil and water). Due to the discrepancies in analytical results for early samples collected by PADEP compared to those collected by Arcadis, the September soil samples collected by Arcadis utilized the same laboratory as PADEP for the analyses (Eurofins) to reduce any discrepancies.

Sampling details and analytical results are provided in the following sections.

5.2 Soil Sampling for Chromium

PADEP and Arcadis collectively performed soil sampling activities as described in the following sections.

5.2.1 Sample Collection

As described previously, soil samples were collected from May to September 2024 from various locations across the Site and along Bartram's Garden Mile Trail. Sampling locations are presented on Figure 4.

5.2.1.1 Onsite

On May 30 and June 7, 2024 Arcadis collected soil samples from 16 soil borings ranging in depths from 3 feet to 15 feet bgs around the Site. During previous Site investigation activities, two locations, soil borings SB-206 and SB-209, were found to have yellowish staining and were resampled and analyzed for total and hexavalent chromium during this event. The remaining 14 locations (soil borings SB-501 through SB-514) were chosen to delineate the extent of chromium-impacted soils. The soil borings were advanced under Arcadis supervision by Hawk, using Geoprobe® direct-push drilling techniques and soil samples were collected in 6-inch intervals from the Geoprobe® core using a plastic trowel.

On July 3, 2024, Arcadis directed the excavation of five test pits along the southwestern Site boundary. The test pits were advanced by Alliance's site redevelopment contractor, ARCO Construction Company Inc., and were installed for visual inspections for yellow-stained soils. Test pit depths ranged from 7 feet bgs in TP-101 and TP-102 to 17 feet bgs in TP-105. Yellow staining was found in all test pits and ranged in thickness from 1 foot in TP-101 to 14 feet in TP-105. After the completion of the visual inspections, the test pits were backfilled with original soil.. Test pit logs are included in Appendix D.

On August 2, 2024, at the request of PADEP, Arcadis collected 10 surficial soil samples from a depth of 0-0.5 feet bgs around the Site. Previously installed soil borings with elevated chromium detections at depth (SB-206, SB-209, SB-216, SB-503, SB-503, and SB-504) were revisited to collect surficial samples. Additionally, the four remaining locations, S-601 through S-604, were selected for further delineation.

On January 8, 2025, Arcadis collected eighteen samples from nine soil borings. The borings were advanced under the supervision of Arcadis by Hawk using Geoprobe® direct-push drilling techniques. Elevated chromium from a surficial soil sample from S-604 required the location to be delineated vertically and horizontally. Soil boring SB-604 was installed at the S-604 location. The additional delineation borings, SB-701 through SB-708, were installed to further delineate chromium both horizontally and vertically. Except for soil boring SB-604, samples were collected from each boring at the surface and at the 6-inch interval above the water table which

ranged from 6 feet to 7.5 feet bgs. The sample at soil boring SB-604 was collected only at the interval above the water table. Additionally, yellow-stained soil was identified in soil boring SB-705, so an additional sample was collected from the stained soil.

5.2.1.2 Bartram's Garden Mile Trail

On July 22 and August 13, 2024, PADEP and Arcadis collected 21 discrete split soil samples using a trowel and stainless-steel bowl at the locations presented on Figure 4 along Bartram's Garden Mile Trail near the Site. Locations along the trail were selected by PADEP. The locations were biased towards low-lying areas and around drainage holes in the river side wall. During these sampling events, soil was collected at each location using a dedicated plastic sampling trowel. Once enough volume was collected, each location was homogenized to help create an accurate split sample.

During the July 2024 event, PADEP also analyzed its samples for VOCs, SVOCs and other metals, so Arcadis analyzed for those constituents in its split samples as well. Site-related COCs that were analyzed are included in Table 14b for completeness. If a constituent was never detected onsite and was therefore not retained as a Site-related COC, it was not tabulated this RIR/CP; laboratory analytical reports for samples collected by Arcadis, with all constituents reported, are included in Appendix G.

Alliance removed soil or sediment at sample points with hexavalent chromium at concentrations greater than the residential MSC of 35 mg/kg along Bartram's Garden Mile Trail via scraping. Then, Arcadis sampled from the same geographic locations sampled previously, utilizing the same sampling methods for consistency.

In September 2024, Arcadis resampled five locations after Alliance removed additional soil or sediment along Bartram's Garden Mile Trail. Arcadis also sampled additional locations along Bartram's Garden Mile Trail at elevations that would not be impacted by surface water run-off from the Site. Samples S-18, S-19, and S-20 were collected from the southern slope of the railroad embankment, while samples S-22 and S-23 were collected from the northern slope of the railroad embankment. On the eastern side of the trail, an elevated mound of soil was sampled as S-21. Additionally, Arcadis resampled locations DEP51-S3, DEP51-S5, DEP51-S6, DEP51-S8A, and DEP51-S16. Sample collection methodology remained consistent with that of previous sampling events along Bartram's Garden Mile Trail.

5.2.2 Analytical Results

During Site investigations conducted before the discovery of chromium impacts, some sampling locations were analyzed for inorganic constituents. Upon initiation of the chromium investigation, the laboratory was able to retrieve and report total chromium results for 13 samples previously analyzed for other inorganics. These historical retrieved analytical results as well as the recent chromium investigation soil analytical results, are presented in Table 14a for onsite locations and Table 14b for Bartram's Garden Mile Trail locations. As noted above, PADEP evaluated its samples for additional analytes; any Site-related COCs are tabulated in Table 14b.

5.2.2.1 Onsite

Total chromium was identified in the 13 samples from previous Site investigations except for the one from 2040-P2 (4.5-5 feet), where it was not detected above the MDL. Only the sample from 1043-P4 (7.5-8 feet) at 200,000 mg/kg exceeded the Non-Residential Soil-to-Groundwater MSC.

During the May-June 2024 sampling, revisited soil borings SB-206, SB-209, and SB-216 had exceedances greater than the soil MSC for hexavalent chromium at detections of 27,900 mg/kg, 11,300 mg/kg, and 15,000 mg/kg, respectively. These locations also had detections of total chromium; however, none exceeded the soil

MSC. The reminder of the samples had exceedances of hexavalent chromium greater than the soil MSC in soil borings SB-501 (4.5-5 feet), SB-502 (4.5-5 feet), and SB-511 (11-11.5 feet) at concentrations of 5,010 mg/kg, 12,300 mg/kg, and 8,130 mg/kg, respectively. As with the other samples, total chromium was detected but did not exceed the soil MSC.

Surficial samples collected in August 2024 had exceedances of hexavalent chromium of 259 mg/kg, 1,660 mg/kg, 279 mg/kg, and 5,710 mg/kg in samples S-209, S-216, S-502, and S-604, respectively. Additionally, total chromium was also detected in all of the event's samples; however, none exceeded the soil MSC.

During January 2025 soil sampling event, previous surficial sample location S-604, was sampled as SB-604 to delineate hexavalent chromium at depth. SB-604 (7.5-8) did not have any detections of hexavalent chromium. The reminder of the samples had exceedances of hexavalent chromium greater than the soil MSC in soil borings SB-703 (0-0.5 feet), SB-703 (5.5-6 feet), SB-705 (0-0.5 feet) and SB-705 (3.5-4 feet) at concentrations of 690 mg/kg, 4,090 mg/kg, 1,730 mg/kg and 5,430 mg/kg, respectively. Additionally, total chromium was detected but did not exceed the soil MSC in all the samples.

Figure 7 presents the results and soil sampling locations where total and hexavalent chromium were greater than their respective MSCs onsite.

5.2.2.2 Bartram's Garden Mile Trail

Samples collected along Bartram's Garden Mile Trail from July through September 2024 showed detections of total chromium and hexavalent chromium, although no sample exceeded the soil MSC. Various sampling locations were remediated by Alliance. Impacted sediments at sample locations DEP51-S3, DEP51-S5, DEP51-S6, DEP51-S-7, DEP-51-S8/8A, and DEP51-S9, shown on Figure 4, have since been removed from the trail sampling locations with agreement of PADEP.

All samples collected from locations DEP51-S5, DEP51-S6, and DEP51-S8/8A had low level detections of hexavalent chromium and total chromium after clean-up efforts. This shows that the sample locations are being affected by anthropogenic background conditions. The Schuylkill River deposits impacting sediments along the tidally influenced areas of Bartram's Garden Mile Trail. Additionally, samples collected at elevated grade levels along the railroad embankment and under the railroad bridge, that surface water run-off from the Site would not reach, had detections of total and hexavalent chromium, indicating that there is a broader impacted area that is not Site related.

5.3 Surface Water Sampling for Chromium

PADEP and Arcadis collectively performed surface water sampling activities as described in the following sections. Water samples were analyzed for total and filtered total chromium via USEPA Method 6020B, and for total and filtered hexavalent chromium via USEPA Method 7196A.

5.3.1 Sample Collection

Arcadis collected a sample from the onsite standing water during the initial chromium investigation in April 2024 (SW-1). PADEP and Arcadis also collected four split surface water samples: two from the Schuylkill River and two from onsite seasonal standing water. These locations are presented on Figure 4 and Figure 13.

5.3.1.1 Schuylkill River

On July 22, 2024, Arcadis and PADEP collected four surface water samples from the Schuylkill River. The locations were selected by PADEP personnel. Two locations were sampled in the river along Bartram's Garden Mile Trail where the soil sampling occurred, and one sample was collected both upriver and downriver from the soil sampling locations. Each location was sampled using a dedicated polyethylene bailer.

5.3.1.2 Onsite Seasonal Standing Water

On April 29, 2024, during the initial chromium investigation, Arcadis collected a sample from a seasonal standing water pool onsite. This sample was also analyzed for the presence of VOCs, SVOCs, and fluorescent dyes (fluorescein, eosine, rhodamine WT, sulforhodamine B, and pyranine). The sample was collected utilizing a dedicated polyethylene sampling cup.

On August 13, 2024, Arcadis and PADEP collected two split surface water samples from the same seasonal standing water pool that was previously sampled by Arcadis in April 2024. A sample was collected on both the eastern and western side of the pooled water, as directed by PADEP. Each location was sampled using a dedicated polyethylene sampling cup.

5.3.2 Analytical Results

Table 15 presents the results of surface water sampling for chromium in comparison to the PADEP Chapter 93 Surface Water Quality Criteria.

Site-related COC (which are constituents that were detected at least once in onsite soil or groundwater samples) results that are available for surface water samples are included in Table 15 for informational purposes. If a constituent was never detected onsite and was therefore not retained as a Site-related COC, it was not tabulated, but laboratory analytical reports for samples collected by Arcadis are included in Appendix G.

5.3.2.1 Schuylkill River

Hexavalent chromium was not detected in any surface water samples collected along the Schuylkill River. Only estimated total and filtered chromium concentrations were detected in all the samples.

5.3.2.2 Onsite Seasonal Standing Water

During the initial chromium investigation in April 2024, total chromium was detected at 21,560 ug/L in standing water sample SW-1 (Figure 13) from the onsite drainage swale. However, at that time, the sample was not analyzed for hexavalent chromium. Additionally, none of the dyes analyzed were detected in the sample.

In August 2024, hexavalent chromium was detected at concentrations of 19,600 ug/L and 28,000 ug/L in samples DEP51-W5-240813 and DEP51-W6-240813, respectively. These samples are in the same drainage swale as sample SW-1 (Figure 13). . While these results are presented in Table 15, Surface Water Quality Criteria is not applicable to standing water samples that are not in a surface water body.

5.4 Quarterly Groundwater Sampling for Chromium

In May 2024, total chromium and hexavalent chromium were added to the groundwater analytical suite. The May 2024 event only included select monitoring wells (MW-3, MW-4, MW-7, and MW-9) for analyses of total chromium and hexavalent chromium, as agreed upon by PADEP.

Following the May 2024 event, two additional events (August 2024 and November 2024) were conducted for total and hexavalent chromium in all onsite wells. The fourth consecutive quarterly event is planned for February 2025.

5.4.1 Sample Collection

During each groundwater sampling event, Arcadis collected the samples using low-flow sampling techniques. Prior to beginning the groundwater sampling activities, Arcadis gauged groundwater levels to determine the groundwater flow direction. The monitoring wells then were purged at a rate of approximately 0.1 gallon per minute with a submersible centrifugal pump (ProActive Steel Monsoon Pump™ or equivalent). Sampling was conducted upon stabilization of water quality parameters.

During the August 2024 groundwater sampling event, it was discovered that monitoring well MW-2 was damaged and required repairs in order for the well to be sampled. Monitoring well MW-2 was subsequently sampled in early October 2024 after repairs were completed.

The monitoring well purge logs are provided in Appendix H.

5.4.2 Analytical Results

With PADEP agreement, the groundwater MSC for chromium (100 µg/L) was used to screen both total chromium and hexavalent chromium results in groundwater. Filtered results for each sample were considered representative of groundwater conditions. Unfiltered metals concentrations are considered more representative of sediment that is bound to water molecules. Analytical results are included in Table 12. A discussion of filtered results follows.

In May 2024, chromium and hexavalent chromium were present at concentrations greater than the groundwater MSC in all monitoring wells sampled (MW-3, MW-4, MW-7, and MW-9).

In August 2024, chromium was detected in groundwater from all monitoring wells sampled; however, only MW-3, MW-4, MW-7, and MW-9 exceeded the groundwater MSC. Hexavalent chromium was also detected in all monitoring wells sampled and was present at concentrations greater than the groundwater MSC in monitoring wells MW-3, MW-4, MW-7, and MW-9. Hexavalent chromium either was not detected or was detected only at estimated concentrations (less than the groundwater MSC) in monitoring wells MW-1, MW-2, MW-5, and MW-8.

In November 2024, chromium was detected in groundwater from all monitoring wells sampled; However, only monitoring wells MW-3, MW-4, MW-7, and MW-9 exceeded the groundwater MSC. Hexavalent chromium concentrations in monitoring wells MW-4, MW-7, and MW-9 exceeded the groundwater MSC. Hexavalent chromium either was not detected or was detected only at estimated concentrations (less than the MSC) in monitoring wells MW-1, MW-2, MW-3, MW-5, and MW-8.

The groundwater analytical results are summarized in Table 12. Filtered chromium and filtered hexavalent chromium groundwater isopleths from the November 2024 sampling event are presented as Figure 10 and Figure 11, respectively. Laboratory data packages are provided in Appendix G. The fourth quarterly event for analyses of total and hexavalent chromium is planned for February 2025. Upon the receipt of data, attainment will be requested upon confirmation of stable to decreasing trends.

5.5 Other Off-Site Impacts to Trail

As communicated with PADEP on January 9, 2025 (Appendix A), an evaluation of chromium sources was conducted based on historical United States Geological Survey (USGS) maps and aerials, runoff flow patterns, the cleanups performed, the Arcadis post cleanup sampling, and data collected by PADEP and Arcadis.

Runoff from the Alliance-facing side of the railroad tracks flows onto the Site and the drainage swale along the Site boundary. Both Arcadis and PADEP sample results indicate that historical fill material are sources of hexavalent chromium unrelated to the Site. One of the Site sample points, S-22, with a 3.9 mg/kg hexavalent chromium concentration, was located near the top of the slope on the Alliance side of the railroad tracks (Table 14b). It is likely there is sporadic hexavalent chromium in the entire bank. The general stormwater flow from the railroad embankment along the Alliance property boundary is to the west into the drainage swale on the Site and then to the north to the Bartram's Garden Mile Trail. As discussed in Section 1.8.5, filling activities were conducted onsite in the earlier parts of the 1900s. Additionally, the elevated rail line along the southeast Site boundary dates back to the late 1800s. A USGS map in Appendix A (January 2025 chromium correspondence) shows the rail line in 1891 off the south Site boundary and going across the river. The rail line very likely has the same fill material along its embankment as the fill onsite. Additionally, both Arcadis and PADEP sampling found hexavalent chromium at S-21 that is unrelated to the Site.

The latest PADEP sampling results along the Schuylkill River are likely the result of deposition of river sediments from high tide and flooding from the river. The PADEP sampling after the Alliance cleanup and sampling was conducted within a very dry period with little to no rainwater runoff; this supports that the river sediments are a (secondary) chromium source.

Weekly inspections are conducted after rain events and sometimes during a rain event. Since Alliance made improvements to the swale on its property, there is no current evidence of any runoff leaving the property.

PADEP requested that Alliance perform a human health risk assessment related to certain sample points along Bartram's Garden Mile Trail based upon the latest data collected by PADEP. These samples were collected on October 24, 2024 after Alliance removed sediments in the area, made the drainage swale improvements, and no runoff from the Site had occurred. Following the cleanup of the sediments in September, the sample collected at the end of the swale (S-3) was non-detect for hexavalent chromium. Samples collected from other locations along the trail (S-5/S-6 and S-8A) had hexavalent chromium hits but below the current residential standard. However, three 'background' (upgradient) samples (S-18, S-21 and S-22) collected from elevations above the trail that could not have been impacted from runoff from the Alliance property identified hexavalent chromium indicating that other background sources are impacting the trail. In the October 2024 sampling by PADEP, hexavalent chromium was detected in S-3 but at a concentration below the MSC. The source of that result may be the fill along the higher elevation railroad tracks off the southern property boundary where runoff drains into the swale along the property line that exits at S-3. The hexavalent chromium concentrations in surface soils were observed to vary widely across the sample locations.

5.6 Conclusions

Based on these results, it is evident that non-Site sources impact these locations from the above summary and that Alliance is not responsible for the hexavalent chromium currently present. Nevertheless, as an accommodation to PADEP, Alliance agreed to perform a HHRA of those sample locations (Appendix A).

6. Nature and Extent of Constituents of Concern

The nature and extent of COCs at the Site are discussed in the following subsections through the comparison of sample results to PADEP MSCs. Sample results are also compared to VI SVs.

6.1 Soil

Soil samples were collected during the AST closure activities performed by Stantec in 2021. Arcadis collected additional delineation soil samples in 2021, 2022, and 2023 during the due diligence and subsequent Act 2 investigation activities.

Only seven COCs [benzene, naphthalene, lead, total chromium, hexavalent chromium, biphenyl and bis(2-chloroethyl) ether] were identified at concentrations greater than the PADEP Non-Residential Soil MSCs.

Soil MSC exceedances are presented on Figure 7. COCs that exceed their respective screening values and remain onsite are presented in Table 16.

6.1.1 Tank Containment Areas

Soil investigation activities in the tank containment areas, truck loading area, and paved areas west of Tank Containment Area 1 identified benzene, naphthalene, lead, biphenyl, and bis(2-chloroethyl)ether at concentrations greater than their respective soil MSCs. The extent of each concentration was delineated horizontally and vertically to the water table. MSC exceedances in soil samples are presented on Figure 7. Impacted soils will be moved to a location beneath the proposed building, as discussed in Section 9.

Exposure pathways and proposed future controls related to soil are discussed in Section 7 and Section 9, respectively.

6.1.2 Other Site Areas

The samples collected from the soil pile had some detections of VOCs, SVOCs, PCBs, and metals. However, no concentrations were greater than their respective soil MSCs. As such, it is proposed that the soil will be used as general fill onsite during redevelopment activities.

Low levels of various VOCs were detected in the samples collected from the truck loading area and paved parking areas to the west of Tank Containment Area 1. With the exception of benzene, the concentrations were below soil MSCs. The concentrations of benzene that were greater than the soil MSC (in the pad located west of Tank Containment Area 1) ranged from 0.59 mg/kg in soil boring SB-204 (8.5-9 feet) to 2.6 mg/kg in soil boring SB-202 (8.5-9 feet). MSC exceedances in soil samples are presented on Figure 7. Exposure pathways and proposed future controls related to soil are discussed in Section 7 and Section 9, respectively.

6.1.3 Chromium-Related Exceedances

MSC exceedances of total chromium and hexavalent chromium are presented on Table 14a and Figure 7.

Locations along Bartram's Garden Mile Trail that contained total and hexavalent chromium at concentrations greater than soil MSCs have been removed and placed in drums onsite for future offsite disposal. Detections remaining in soil will be evaluated through risk calculations, as previously discussed with PADEP (Appendix A).

6.2 Groundwater

Eight quarterly groundwater monitoring events were performed from April 2022 to January 2024 for VOCs and lead. Only three COCs (benzene, naphthalene and lead) were detected at concentrations greater than the PADEP Non-Residential Used Aquifer Groundwater MSCs during quarterly monitoring. Benzene was detected in groundwater sampled from one monitoring well (MW-7), located in Tank Containment Area 1, at concentrations greater than the groundwater MSC in each of the sampling events. The benzene isopleth for the most recent Site-wide event (January 2024) is presented on Figure 8.

Naphthalene was detected in groundwater sampled from one monitoring well (MW-9), located in Tank Containment Area 3, at a concentration greater than the groundwater MSC during two sampling events. The concentrations for the last three sampling events were less than the groundwater MSC.

In addition, lead was detected in groundwater in monitoring well MW-9 at concentrations greater than the groundwater MSC in each of the sampling events. A downward trend in concentration was identified during the monitoring program. The concentrations of lead in groundwater sampled from downgradient monitoring well MW-4 were less than the groundwater MSC. The lead isopleth for the most recent Site-wide event (January 2024) is presented on Figure 9.

During ongoing communications regarding hexavalent chromium, PADEP requested that two full rounds of groundwater sampling be conducted to include total and hexavalent chromium and that results be reported in this RIR/Cleanup Plan. PADEP indicated that two additional quarters of sampling should subsequently be completed to demonstrate attainment, and results could be presented in an RIR Addendum. Analyses of chromium was initiated in May 2024, and three quarterly events have been completed. Filtered total chromium concentrations in monitoring wells MW-3, MW-4, MW-7, MW-8, and MW-9 exceed the MSC. Filtered hexavalent chromium concentrations in monitoring wells MW-3, MW-4, MW-7, and MW-9 exceeded the MSC. Hexavalent chromium either was not detected or was detected only at estimated concentrations (less than the MSC) in monitoring wells MW-1, MW-2, MW-5, and MW-8.

Filtered total chromium and filtered hexavalent chromium groundwater isopleths from the November 2024 sampling event are presented as Figure 10 and Figure 11, respectively.

Trends in groundwater over the eight quarterly events for benzene, naphthalene, and lead are stable to decreasing. Trends of total and hexavalent chromium in groundwater samples will be evaluated upon receiving results from the fourth quarterly sampling event. Isopleths and fate and transport modeling results indicate that COC concentrations will not travel beyond the Site or adjacent railroad property. It is currently proposed that an EC will be used to address the groundwater exceedances. Exposure pathways and controls related to groundwater are discussed in Section 7 and Section 9, respectively.

6.3 Soil Gas

Soil gas sampling was conducted in May 2022 at seven locations, SG-1 through SG-7, with depths ranging from 2.5 to 9 feet bgs.

Concentrations were compared to the SHS Sub-slab VI SVs for screening purposes. In addition, because it is proposed that SSS will be used for benzene and naphthalene, the soil gas concentrations were evaluated relative to 1/10th the VI SV for these compounds. Benzene was detected in the soil gas sample from SG-5 at a

concentration exceeding the SHS and SSS SV. Non-detected laboratory MDLs and RLs of other constituents were also greater than their respective VI SVs. The VI exposure pathway is discussed further in Section 7.

7. Conceptual Site Model and Exposure Evaluation

The Site is located in a historical and present industrial/commercial section of Philadelphia, adjacent to Bartram's Garden Mile Trail and the Schuylkill River. The petroleum ASTs were located on an approximately 12-acre parcel located south of 51st Street.

Petroleum ASTs and associated piping have been demolished and removed. Aboveground buildings and structures have also been removed. An oil-water separator remains in the northeast portion of the Site in a gravel area. The former AST locations and containment areas are covered with soil or gravel.

Surficial geology identified at the Site consisted primarily of light brown silty sand with mica clasts (Appendix D). The formation underlying the Site is the Wissahickon Formation, which is composed of a medium- to coarse-grained foliated crystalline rock ranging in texture from gneiss to schist. Groundwater is encountered in the overburden at depths between 3 and 13 feet bgs. Groundwater flow is primarily toward the east, toward the Schuylkill River. This stretch of the Schuylkill River is in the tidal zone, where there is a tidal swing of approximately 6 feet.

The operations of the former ASTs and piping systems are believed to be the source of the petroleum-related COCs identified in the subsurface soil at the Site. Soil investigation activities have identified concentrations of all COCs, except for benzene, naphthalene, bis(2-chloroethyl) ether, biphenyl, lead, total chromium, and hexavalent chromium, at levels less than their representative soil MSCs.

Groundwater sampling has identified benzene, naphthalene, and lead from former operations, and total chromium and hexavalent chromium from historical filling at concentrations greater than the groundwater MSCs.

The future intended use of the Site is non-residential. Currently, proposed redevelopment of the Site includes moving soil, grading surfaces, constructing a warehouse or other similar building, and paving other areas of the Site (Section 9). Deed restrictions will be put into place that will memorialize Site use restrictions and protect Site redevelopers and future workers.

The following sections present the exposure pathway evaluation by environmental media.

7.1 Soil

Potential exposure pathways for COCs related to soils include direct contact, soil COCs leaching to groundwater, and VI into future buildings. There are no current soil exposure pathways because the Site is not in use and is secured by fence.

7.1.1 Direct Contact

Currently, the Site consists of unpaved soil and gravel areas where the former AST locations, containment areas, former fuel truck loading rack, and guard house were previously located.

As discussed in Sections 9 and 10, it is currently proposed that the Site will be redeveloped as a warehouse or similar building use and that an EC will require engineering controls to limit exposure COC concentrations in soil that exceed criteria. As part of the redevelopment, onsite soil will be graded and relocated to address the elevation differences across the Site (Figures 14 and 15). Work will be required to be conducted in accordance with a Materials Management Plan (MMP), as described in Section 9. Following redevelopment of the Site, the soil with COC concentrations greater than the Non-Residential Direct Contact screening values will be located beneath the building slab and/or the surrounding concrete pavement, asphalt pavement, and landscaped areas. Based on the

current redevelopment plans, the potential direct contact exposure pathway is considered incomplete because of the proposed MMP and the maintenance requirement for the engineering controls that will be memorialized in the future EC for the Site. Proposed land use controls will prevent future exposure under a non-residential land-use scenario. While current chromium detections offsite are not attributable to the Site, a forthcoming risk assessment will confirm that direct contact with soil is not a concern on the Bartram's Garden Mile Trail.

7.1.2 Soil to Groundwater

Benzene was detected in soil in Tank Containment Areas 1 and 3 at concentrations greater than the PADEP Non-Residential Soil-to-Groundwater screening value. Additional COCs present at concentrations greater than the screening value include: naphthalene, lead, bis(2-chloroethyl) ether, and biphenyl in Tank Containment Area 1; lead in Tank Containment Areas 2; and, total chromium and hexavalent chromium at the locations shown on Figure 7. Exceedances of the soil screening values are summarized in Table 16.

Following the proposed grading and redevelopment of the Site, soil with COC concentrations greater than the PADEP Soil-to-Groundwater Non-Residential screening values will be located beneath impervious surfaces, including concrete and/or asphalt pavement. Based on the proposed redevelopment plans, the soil-to-groundwater exposure pathway is considered incomplete because the maintenance requirement for the engineering controls will be memorialized in the future EC for the Site, as discussed in Section 9.

7.1.3 Vapor Intrusion from Soil

As an initial screening of potential vapors emanating from subsurface soils, COC concentrations in soil samples were compared to the current PADEP Non-Residential VI SVs. Concentrations of benzene and naphthalene exceeded the SV in soil at various borings located primarily within Tank Containment Area 1 (Table 1). In addition, bis(2-chloroethyl)ether was detected in one location (soil boring SB-103 in October 2021) at a concentration greater than the VI SV (Table 2). The sample depths ranged from 4 to 9 feet bgs in these borings.

Based on the proposed grading and redevelopment of the Site, the soil with COC concentrations greater than the PADEP VI SVs will be located beneath the building slab and/or the surrounding concrete pavement, asphalt pavement, and landscaped areas. As part of the warehouse construction, a passive SSDS also will be installed as a proactive VI mitigation measure to address soil beneath the building with concentrations greater than the VI SVs. After construction is complete and before submittal of the Final Report, confirmatory sub-slab soil gas and indoor air sampling will be conducted to verify that no VI is occurring.

7.2 Groundwater

Exposure pathways related to groundwater are evaluated in the following subsections.

7.2.1 Direct Contact

Benzene, naphthalene, lead, total chromium, and hexavalent chromium have been present in groundwater at concentrations greater than their respective groundwater MSCs. The is no current direct contact to groundwater because the Site is inactive. Fate and transport modeling results indicate that COCs will not travel beyond the Site or adjacent railroad.

It is currently proposed that an EC will be used to address the groundwater exceedances. Exposure pathways and controls related to groundwater are discussed in Section 7 and Section 9, respectively. With the implementation of an EC, this potential exposure pathway is considered incomplete for future receptors.

7.2.2 Ingestion

There is no current ingestion of groundwater as there is no potable use of groundwater in the area. The Site and surrounding areas are supplied with water from the PWD. The PWD owns and operates three water treatment plants. The Queen Lane Plant is located in East Falls and draws water from the Schuylkill River via its intake located along Kelly Drive. The Belmont Plant is located in Wynnefield and also draws water from the Schuylkill River via its intake located along Martin Luther King, Jr. Drive. The Baxter Plant is located in Torresdale, and its water comes from the Delaware River. Its intake is located at the plant site on the Delaware River.

The EC for the Site will memorialize the groundwater use restriction. Arcadis performed a 1-mile radius well search in November 2024 (Appendix K) using the state database maintained by the Pennsylvania Groundwater Information System (also known as the Pennsylvania Geologic Data Exploration). According to the well search, the following were reported within 1 mile of the Site:

- 124 monitoring wells;
- 11 wells with no use provided;
- Three observation wells;
- Two test wells; and
- 58 withdrawal wells.

Additionally, 38 abandoned wells, 31 destroyed wells, and eight unused wells were reported within the 1-mile radius. The wells within 0.5 mile are presented on Table K-1 in Appendix K. The two withdrawal wells that were identified near the 0.5-mile radius are located on the opposite side of the Schuylkill River on an industrial property. No hydraulically downgradient domestic potable supply wells were identified within 0.5 mile of the Site.

Based on the groundwater investigation results and the location of the wells, as presented in the well search results, the migration of COCs in groundwater to a potable source is not expected.

7.2.3 Dermal Contact

The depth to groundwater at the Site currently ranges from approximately 3.5 to 12 feet bgs. Site topography varies in elevation due to the nature of the former AST containment areas. During the proposed redevelopment activities, existing onsite soil is proposed to be graded (cut and filled) to achieve the required final grade. In areas where the current depth to groundwater is shallow (3.5 feet bgs), it is planned that approximately 8.5 feet of fill will be added as described in the PADEP-approved RAP (Alliance 2023b), so the minimum depth to groundwater following redevelopment will be approximately 12 feet bgs. The proposed cut and fill activities are presented on Figure 14.

During redevelopment, construction workers will follow the soil and groundwater management plans prepared for the Site. Following Site redevelopment, it is not expected that future construction workers will excavate to the depth required to encounter the water table. The EC will include an MMP that will be used as a model for future intrusive work, as discussed in Section 9. Therefore, potential exposure pathways related to a future worker contacting groundwater are considered incomplete.

7.2.4 Vapor Intrusion from Groundwater

As part of an initial screening of potential vapors emanating from groundwater, groundwater samples were compared to the current PADEP Non-Residential SHS VI SVs. Results of the analysis of groundwater samples

collected at the Site show that COC concentrations do not exceed the PADEP Non-Residential PADEP VI SVs (Table 12).

The groundwater VI pathway is considered incomplete.

7.3 Soil Gas

During the proposed redevelopment activities, subgrade infrastructure that has the potential to serve as a preferential pathway beneath the surface will be constructed. The soil gas samples previously collected below the proposed building footprint are expected to accurately represent possible future conditions.

Benzene was detected in a soil gas sample from soil gas sampling point SG-5 at a concentration exceeding the SHS and SSS VI SVs. Non-detected laboratory MDLs and RLs of other constituents were also greater than their respective VI SVs.

Soil gas sampling point SG-5 is in an area that is proposed to receive fill to bring the final grade up to the required elevation. In addition, as part of the warehouse construction, a passive SSDS will be installed as a proactive VI mitigation measure to address soil beneath the building with concentrations above the VI SVs. After construction is complete, confirmatory sub-slab soil gas and indoor air sampling will be conducted to verify that no vapor intrusion is occurring. The Final Report will provide confirmation that the SSDS is effective and that the pathway is incomplete.

7.4 Surface Water

The closest surface-water body is the Schuylkill River, which is located east of the Site. Groundwater flows to the east-northeast, toward the Schuylkill River. In the farthest onsite downgradient monitoring well (MW-1), the groundwater contains no COCs that exceed the MSCs, confirming that there are no groundwater COCs migrating to the river.

The only surface water samples from the 2024 – 2025 chromium investigation that exhibited detections of hexavalent chromium at concentrations greater than PADEP Chapter 93 Surface Water Quality Criteria (DEP51-W5 and -W6; Table 15) were collected from standing water in low lying areas within the site boundary. These low-lying areas are only intermittently saturated and would not support aquatic life. Surface water samples collected in the Schuylkill River (Figure 13) were either not detected or at very low estimated concentrations (Table 15).

Therefore, the surface-water pathway is considered incomplete.

7.5 Ecological Receptors

An evaluation of potential ecological receptors follows.

7.5.1 Wetlands Inventory

Arcadis conducted an evaluation of wetlands in the area via the National Wetlands Inventory (NWI) wetlands mapping tool provided by the United States Fish & Wildlife Service (USFWS 2024). NWI maps are used as a guide, along with other data, to indicate the potential presence of wetlands. The presence of an NWI feature is not a definitive indicator that a wetland or waterbody is present. The NWI data indicated a 0.08-acre Freshwater Emergent Wetland habitat classified as a PEM1Fx, which is located approximately 0.1 miles northeast of the Site. The NWI data also indicated a 0.18-acre Freshwater Emergent Wetland habitat classified as a PEM1Cx, which is

located approximately 0.2 miles north of the Site boundary. Lastly, the NWI data indicated a 21,690.68-acre Riverine habitat classified as a R1UBV, which is the Schuylkill River located adjacent to the Site. The Site is located roughly 3.5 miles from where the Schuylkill River feeds into the Delaware River. An NWI feature map is provided in Appendix L.

7.5.2 Pennsylvania Natural Diversity Inventory

Arcadis completed a Pennsylvania Natural Diversity Inventory (PNDI) survey for the Site and surrounding area in December 2024 as part of the Act 2 evaluations. Survey responses from the Pennsylvania Game Commission and USFWS indicated that there were no known adverse effects. The initial responses from both the Pennsylvania Department of Conservation and Natural Resources (PADCNR) and Pennsylvania Fish and Boat Commission indicated that there was a potential adverse effect and that further review was required. Following their subsequent reviews, the agencies confirmed that no adverse effects are anticipated within the project area. The PNDI survey and PADCNR and Pennsylvania Fish & Boat Commission clearance letters are provided in Appendix L.

Arcadis will conduct additional NWI and PNDI inquiries and provide updates in the Final Report as necessary.

8. Selection of Remedial Standards

Detected constituents in soil and groundwater samples, and therefore the established COCs for the Site are presented in Table 17. It is expected that COCs in Site media will demonstrate attainment of a combination of SHS and SSS. Due to the expected institutional controls for the Site, Non-residential standards will be met.

The lower of the PADEP soil Direct Contact screening value and the PADEP Non-Residential Soil-to-Groundwater screening value are the representative MSCs for soil concentrations at the Site. The following COCs are greater than their respective MSCs, and therefore meet SSS for soil: benzene, naphthalene, bis(2-chloroethyl) ether, biphenyl, lead, total chromium, and hexavalent chromium. The remaining COCs meet SHS.

The PADEP Used Aquifer MSCs were used for screening COC concentrations in groundwater. The following COCs meet SSS for groundwater based on at least one exceedance in groundwater samples during monitoring: benzene, naphthalene, and lead, total chromium, and hexavalent chromium. The remaining COCs meet SHS.

For COCs that do not meet SHS, the SSS will be used via pathway elimination consisting of engineering and institutional controls (Section 9).

9. Cleanup Plan

This Cleanup Plan has been prepared to summarize the remedial approach at the Site, to demonstrate attainment of Act 2 standards, and to meet the remedial action objectives (RAOs) described in Section 9.2.

9.1 List of Contacts

The Owner and Remediator of the Site is:
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9.2 Previously Completed and Ongoing Remedial Actions

Historical active remedial activities conducted at the Site include AST removals and excavation of COC-containing soils. Some soils (primarily the soil pile) have been reworked within the Site in accordance with the RAP (Alliance 2023b) as part of redevelopment. Redevelopment plans are currently paused until a prospective buyer is identified.

Additionally, chromium-related impacts have been removed (scraped) from Bartram's Garden Mile Trail with PADEP involvement, and containerized for offsite disposal.

9.3 Remedial Action Objectives

The RAOs for the Site are to:

- Protect human health and the environment;
- Identify the potential exposure pathways for the Site's current and anticipated future land use;
- Describe the methods employed to mitigate the identified exposure pathways; and
- Qualify for relief of liability under Act 2 with respect to the presence of COCs in Site media.

The SSS developed for the Site include pathway elimination measures and the use of engineering and institutional controls to address potential risk to human health and the environment, including risk resulting from probable future Site use.

9.4 Evaluation of Remedial Alternatives

Remedial alternatives were evaluated in accordance with the criteria established under Section 304(j) of Act 2, which are as follows:

- Long-term risks and effectiveness of the proposed remedy;
- Reduction of the toxicity, mobility, and volume of regulated substances;
- Short-term risks and effectiveness of the proposed remedy; and
- The ease or difficulty of implementation.

Several remedial alternatives were considered for the proposed remedy, including:

- Source removal (soil excavation, groundwater extraction);
- Engineering controls (cap/pavement);
- Active remediation (injections, soil vapor extraction);
- Passive remediation (vapor barrier, SSDS); and
- Institutional controls.

9.5 Proposed Remedy

Currently, there are no exposure pathways to receptors because the Site is inactive and there is no potable groundwater use. Future land use is anticipated under a non-residential land use scenario with the construction of a warehouse distribution facility and placement of low-permeability concrete or asphalt pavement across the majority of the Site.

To minimize future exposure risks, an environmental covenant will be established that will (1) restrict future groundwater use; (2) require maintenance of the future low-permeability pavement cap; (3) proper management of soils and materials in accordance with an MMP to prevent accidental exposure to impacted media during future construction and site maintenance activities; and (4) inclusion of a passive vapor mitigation system in the construction of future buildings.

Additional details are provided below.

Based on long-term effectiveness, ease of implementation, and the minimal risk expected, it is currently proposed that COC concentrations in soil that exceed MSCs [benzene, naphthalene, bis(2-choloethyl) ether, biphenyl, lead, total chromium, and hexavalent chromium] will be addressed using engineering controls and an EC.

The EC will also address COCs in groundwater at concentrations greater than groundwater MSCs: benzene, naphthalene, lead, and total and hexavalent chromium.

It is currently proposed that the Site will be developed as a warehouse distribution facility. As part of redevelopment, remaining onsite soil will be graded and relocated as practicable to address the elevation differences across the Site and eliminate the need for offsite disposal. Based on the current elevations at the Site, the soil in the southwestern portion of the Site will be excavated and moved to the central and northeastern portions of the Site to achieve a cut and fill soil balance at the Site. The areas of cut and fill are illustrated on Figure 14.

Soil from the southwestern portion of the Site will be excavated and relocated as follows:

- Under the proposed warehouse building, where other soil contains lead and benzene;
- Under the proposed warehouse building, where there are no COCs in soil with concentrations above criteria; and
- In areas where COCs are present in soil but not in groundwater.

The excavation of the soil or cuts will be only as deep as necessary to achieve the final grades on the Site. The proposed movement of the soil is illustrated on Figure 15.

Following the movement of the soil, redevelopment of the Site will include construction of a building with a concrete slab and concrete and asphalt pavement around the building. These will act as engineering controls with regard to direct contact and will mitigate COCs leaching to the groundwater. As a final redeveloped condition, soil containing COC concentrations above MSCs will be beneath the building or paved areas. The proposed redevelopment plan and engineering controls are illustrated on Figure 16.

In addition, as part of building construction, a passive SSDS will be installed as a proactive VI mitigation measure to address COC concentrations greater than the VI SVs in soil and soil gas.

The proposed post-remedial care plan is discussed in Section 9.6.

9.6 Groundwater Attainment

At least eight quarters of Site-wide groundwater sampling were conducted for the analysis of VOCs and lead between April 2022 and January 2024. Stable to decreasing trends are observed and no downgradient wells exhibit impacts. Fate and transport modeling confirms no future offsite transport of COCs to receptors.

Exposure pathways related to groundwater will remain incomplete both on- and offsite.

During ongoing communications regarding hexavalent chromium, PADEP requested that two full rounds of groundwater sampling be conducted to include total and hexavalent chromium and that results be reported in this RIR/Cleanup Plan. PADEP indicated that two additional quarters of sampling could subsequently be completed to demonstrate attainment, and results could be presented in an RIR Addendum. Groundwater has been sampled for (filtered) total and hexavalent chromium three times during preparation of this RIR/CP. Select wells were sampled in May 2024 and two full rounds were collected in August and November 2024. The concentrations in

the wells are stable. Sampling will cease upon confirmation that the fourth quarter sampling event (May 2025) is consistent with previous events and upon PADEP concurrence.

9.7 Proposed Post-Remedial Care Plan

Pursuant to the proposed EC, the Site will be subject to the following proposed AULs that the then-current property owner and the tenants, agents, employees, and other persons under its control will abide by:

- The Site will remain as non-residential property as defined in the Land Recycling and Environmental Remediation Standards Act of 1995.
- Groundwater at the Site will not be used for farming, irrigation, agricultural, or potable purposes.
- The proposed engineering controls (when completed) in the areas of the PADEP Non-Residential Soil MSC exceedances will be inspected and maintained to prevent exposure and to mitigate potential leaching of COCs within the underlying soils.
- An MMP will be required for future Site intrusive work. A draft MMP will be provided in the Final Report.
- The forthcoming SSDS for the proposed building will require maintenance. If additional buildings are constructed onsite, an evaluation of potential VI issues will be required to assess whether mitigation is necessary.

10. Conclusions

This section presents a summary and conclusions for onsite areas and the offsite trail. Additionally, it describes the public involvement activities and next steps for PADEP's concurrence.

Onsite Areas: The Site has undergone environmental assessment activities since 2021, when the ASTs and associated piping were removed. Based on the results of previous AST closure soil sampling and subsequent delineation soil sampling for Act 2, concentrations of benzene, naphthalene, bis(2-chloroethyl)ether, biphenyl, lead, total chromium, and hexavalent chromium are greater than their respective PADEP Non-Residential Soil MSCs. Soil exceedances have been delineated onsite and soils containing COCs will be moved to a contained area during redevelopment activities. It is proposed that SSS will be used for these COCs, with pathway elimination consisting of an EC and engineering controls installed during redevelopment of the Site.

Groundwater sampling has identified benzene, naphthalene, filtered lead, filtered total chromium, and filtered hexavalent chromium at concentrations greater than the PADEP Non-Residential Used Aquifer Groundwater MSCs; these COCs will meet SSS. The concentrations of VOCs and lead have remained stable or have shown a decreasing trend throughout the quarterly monitoring program, and the detected concentrations in groundwater in the downgradient wells are less than their respective groundwater MSCs. The concentrations of all other COCs are less than the PADEP Non-Residential Used Aquifer Groundwater MSCs. Based on the sampling results over eight consecutive quarters, attainment in groundwater is demonstrated, except for the total and hexavalent chromium, which are still being sampled for in accordance with PADEP communications (Appendix A). Site-related COCs are not expected to travel beyond the Site boundary or adjacent railroad at concentrations greater than their respective MSCs. Analytical results from surface water samples collected in the Schuylkill River confirm that COCs are not impacting surface water. It is proposed that SSS will be used for benzene, naphthalene, lead, and total and hexavalent chromium, with pathway elimination consisting of an EC. PADEP communications resulting from ecological screening confirm no open exposure pathways to ecological receptors.

Soil gas was evaluated through the comparison of soil, groundwater, and soil gas sampling results to the PADEP Non-Residential SHS VI SVs. In addition, soil gas sampling results were evaluated relative to 1/10th the VI SVs for benzene and naphthalene because the SSS will be used to address these organic COCs. The evaluation identified benzene in sample SG-5 and non-detected MDLs at concentrations greater than the applicable VI SVs in SG-5, SG-6, and SG-7. As part of the warehouse construction during Site redevelopment, a passive SSDS will be installed as a proactive vapor intrusion mitigation measure to address concentrations greater than VI SVs beneath the building.

Bartram's Garden Mile Trail: Detections of hexavalent chromium are present in exceedance of the relevant Soil MSCs, Non-residential MSCs onsite and Residential MSCs along Bartram's Garden Mile Trail. Alliance remediated areas of Bartram's Garden Mile Trail receiving runoff from the Site drainage swale after discussion with PADEP, and post-remediation soil sampling results were primarily below the standards. Following the removal activities, the detections along the trail are not believed to be associated with historical Site operations, but rather with historical filling activities, the deposition of Schuylkill River sediments, as well as tidal influences from the river. Additional risk evaluations will be conducted, as agreed upon with PADEP, to evaluate hexavalent chromium at the specified locations along Bartram's Garden Mile Trail. The risk assessment will be submitted to PADEP under separate cover.

Public Involvement: The City of Philadelphia comments on the PIP were addressed, as practicable, in the February 2025 update to the PIP (Appendix B). A public meeting will be held following submittal of this RIR/Cleanup Plan. Other details of the PIP are presented in Section 1.2.

Next Steps: It is anticipated that potentially complete exposure pathways associated with the Site will be eliminated by the AULs that will be memorialized in the EC for the Site and that the Site will be in attainment with PADEP SHS and SSS (pathway elimination).

On behalf of Alliance, Arcadis respectfully requests PADEP concurrence with the conclusions and proposed activities set forth in this RIR/Cleanup Plan. The proposed activities are consistent with the activities previously proposed in the RAP (Alliance 2023b) and approved by PADEP (PADEP 2024).

11. References

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PADEP. 2023b. Letter approving the Revised Site Characterization Report submitted by Alliance on June 27, 2023 for the Alliance Former 51st Street Terminal, Facility ID No. 51-10420, Incident No. 56662, 1630-1646 South 51st Street, Philadelphia, Pennsylvania. September 27.

PADEP. 2024. Remedial Action Plan Approval, Facility ID No. 51-10420, Incident No. 56662, 51st Street Terminal, 1630 South 51st Street, City of Philadelphia. February 22.

PBF Logistics. 2021a. Aboveground Storage Tank System Closure Notification Form. PBF Logistics Products Terminals, LLC, 1630 South 51st Street, Philadelphia, Pennsylvania. December 15.

PBF Logistics. 2021b. Notification of Release Form. PBF Logistics Products Terminals, LLC, 1630 South 51st Street, Philadelphia, Pennsylvania. August 30.

PBF Logistics. 2021c. AST Closure Report. Submitted to PADEP re: the Alliance Former 51st Street Terminal, 1630-1646 South 51st Street, Philadelphia, Pennsylvania. December 15.

USEPA. 2002. Calculation and Use of First-Order Rate Constants for Monitored Natural Attenuation Studies. EPA/540/S-02/500.

USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities. Office of Resource Conservation and Recovery. Unified Guidance. EPA 530-R-09-007.

USFWS. 2024. National Wetland Inventory. Available online at http://www.fws.gov/wetlands/Wetlands-Mapper.html. United States Department of the Interior, United States Fish and Wildlife Service.

Tables

Table 1
Tank Containment Area 1 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: Area: Laboratory ID: Collection Date: Sample Depth:	7550-P1 1 410-56522-7 9/23/2021 3.0				7550-P2 1 410-56522-6 9/23/2021 3.0				7550-P3 1 410-56522-10 9/23/2021 3.0				7550-P4 1 410-56522-13 9/23/2021 3.0				7550-P5 1 410-56522-14 9/23/2021 3.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																							
Ethylbenzene	70	46		0.00521	J	0.00920	0.00073	0.00056	U	0.007	0.00056	0.0005	U	0.0062	0.0005	0.032	U	0.4	0.032	0.00069	U	0.0086	0.00069
1,2-Dichloroethane	0.5	3.9		0.0011	U	0.00920	0.0011	0.00084	U	0.007	0.00084	0.00075	U	0.0062	0.00075	0.048	U	0.4	0.048	0.001	U	0.0086	0.001
1,3,5-Trimethylbenzene	93	93		0.23		0.00920	0.00092	0.00581	J	0.007	0.00070	0.00062	U	0.0062	0.00062	0.0631		0.4	0.0400	0.016		0.0086	0.00086
Toluene	100	44		0.012		0.00920	0.0011	0.00131	J	0.007	0.00084	0.000771	J	0.0062	0.000750	0.0591		0.4	0.048	0.00171	J	0.0086	0.001
Xylenes, total	1,000	990		0.099		0.018	0.003	0.00421	J	0.01400	0.00200	0.0017	U	0.012	0.0017	0.1801		0.8100	0.1100	0.018		0.017	0.002
Methyl tert-butyl ether	2.0	1.4		0.00092	U	0.0092	0.00092	0.0007	U	0.007	0.0007	0.00062	U	0.0062	0.00062	0.04	U	0.4	0.04	0.00086	U	0.0086	0.00086
Benzene	0.5	0.13		0.00291	J	0.0092	0.00092	0.00111	J	0.007	0.0007	0.000741	J	0.0062	0.00062	0.04	U	0.4	0.04	0.00251	J	0.0086	0.00086
Naphthalene	25	25		0.054		0.0092	0.004	0.0028	U	0.007	0.0028	0.0025	U	0.0062	0.0025	0.2601		0.4	0.1600	0.00801	J	0.0086	0.00350
1,2,4-Trimethylbenzene	300	300		0.35		0.0092	0.00092	0.00481	J	0.007	0.00070	0.00062	U	0.0062	0.00062	0.0871		0.4	0.04	0.009		0.0086	0.00086
Isopropylbenzene	2,500	2,500		0.00511	J	0.0092	0.00073	0.00056	U	0.007	0.00056	0.0005	U	0.0062	0.0005	0.032	U	0.4	0.032	0.00069	U	0.0086	0.00069
1,2,-Dibromoethane	0.005	0.0013		0.000891	J	0.0092	0.00073	0.00056		0.007	0.00056	0.0005	U	0.0062	0.0005	***0.032***	U	0.4	0.032	0.00069	U	0.0086	0.00069
Semivolatile Organic Compounds																							
Anthracene	350	--		0.23		0.03	0.0059	0.4		0.023	0.0046	0.4		0.021	0.004	3.4		0.210	0.042	4.60		0.026	0.052
Benzo(a)anthracene	130	--		0.97		0.03	0.0059	1.7		0.023	0.0046	1.6		0.021	0.004	8.9		0.210	0.042	9.40		0.026	0.052
Benzo(a)pyrene	46	--		1.2		0.03	0.0059	1.6		0.023	0.0046	1.6		0.021	0.004	7.3		0.210	0.042	9.10		0.026	0.052
Benzo(b)fluoranthene	76	--		1.3		0.03	0.0059	2.1		0.023	0.0046	2		0.021	0.004	9.7		0.210	0.042	12.00		0.026	0.052
Benzo(g,h,i)perylene	180	--		0.84		0.03	0.0059	1.1		0.023	0.0046	1.1		0.021	0.004	5		0.210	0.042	6.60		0.026	0.052
Chrysene	230	--		0.92		0.03	0.0059	1.6		0.023	0.0046	1.6		0.021	0.004	8.2		0.210	0.042	9.90		0.026	0.052
Fluorene	3,800	--		0.093		0.03	0.0059	0.13		0.023	0.0046	0.19		0.021	0.004	1.8		0.210	0.042	1.90		0.026	0.052
Phenanthrene	10,000	--		0.78		0.03	0.0071	1.3		0.023	0.0056	1.2		0.021	0.005	15		0.210	0.051	16.00		0.026	0.062
Pyrene	2,200	--		1.2		0.03	0.0059	2.5		0.023	0.0046	2.6		0.021	0.004	16		0.210	0.042	18.00		0.026	0.052
Inorganics																							
Lead	450	--		690		2.40000	0.96000	170		1.60000	0.64000	48		1.8000	0.7200	150		1.400	0.560	120.0		2.2000	0.87000

Table 1
Tank Containment Area 1 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: Area: Laboratory ID: Collection Date: Sample Depth:	7550-P6 1 410-56522-9 9/23/2021 3.0				7550-P7 1 410-56522-8 9/23/2021 3.0				7550-Center 1 410-56522-5 9/23/2021 5.0				7550-North 1 410-57140-1 9/23/2021 2.5				7550-South 1 410-57140-2 9/29/2021 2.3			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																							
Ethylbenzene	70	46		0.00077	U	0.010	0.00077	0.0006	U	0.0075	0.0006	0.00058	U	0.0073	0.00058	0.00034	U	0.0042	0.00034	0.00044	U	0.0055	0.00044
1,2-Dichloroethane	0.5	3.9		0.0012	U	0.010	0.0012	0.0009	U	0.0075	0.0009	0.00087	U	0.0073	0.00087	0.00051	U	0.0042	0.00051	0.00066	U	0.0055	0.00066
1,3,5-Trimethylbenzene	93	93		0.00381	J	0.010	0.001	0.00411	J	0.0075	0.001	0.00230	J	0.0073	0.00073	0.000851	J	0.0042	0.000	0.00055	U	0.0055	0.00055
Toluene	100	44		0.00171	J	0.010	0.00120	0.00221	J	0.0075	0.00090	0.00087	U	0.0073	0.00087	0.00051	U	0.0042	0.00051	0.00066	U	0.0055	0.00066
Xylenes, total	1,000	990		0.003	U	0.019	0.003	0.00371	J	0.015	0.002	0.002	U	0.015	0.002	0.001	U	0.009	0.001	0.002	U	0.011	0.002
Methyl tert-butyl ether	2.0	1.4		0.00096	U	0.010	0.00096	0.00075	U	0.0075	0.00075	0.00073	U	0.0073	0.00073	0.00042	U	0.0042	0.00042	0.00055	U	0.0055	0.00055
Benzene	0.5	0.13		0.000981	J	0.010	0.00096	0.00191	J	0.0075	0.00075	0.00073	U	0.0073	0.00073	0.00042	U	0.0042	0.00042	0.00055	U	0.0055	0.00055
Naphthalene	25	25		0.00621	J	0.010	0.00096	0.00300	U	0.0075	0.00300	0.0029	U	0.0073	0.0029	0.00170	U	0.0042	0.00170	0.00220	U	0.0055	0.00220
1,2,4-Trimethylbenzene	300	300		0.00431	J	0.010	0.00096	0.00391	J	0.0075	0.00075	0.00180	J	0.0073	0.001	0.00101	J	0.0042	0.000	0.001	U	0.0055	0.001
Isopropylbenzene	2,500	2,500		0.00077	U	0.010	0.00077	0.0006	U	0.0075	0.0006	0.00058	U	0.0073	0.00058	0.00034	U	0.0042	0.00034	0.00044	U	0.0055	0.00044
1,2,-Dibromoethane	0.005	0.0013		0.00077	U	0.010	0.00077	0.0006	U	0.0075	0.0006	0.00058	U	0.0073	0.00058	0.00034	U	0.0042	0.00034	0.00044	U	0.0055	0.00044
Semivolatile Organic Compounds																							
Anthracene	350	--		0.23		0.026	0.005	0.032		0.027	0.005	0.084		0.0	0.0	0.0036	U	0.0180	0.0036	0.0038	U	0.019	0.004
Benzo(a)anthracene	130	--		0.68		0.026	0.005	0.11		0.027	0.005	0.19		0.0	0.0	0.0036	U	0.0180	0.0036	0.0038	J	0.019	0.004
Benzo(a)pyrene	46	--		0.48		0.026	0.005	0.12		0.027	0.005	0.2		0.0	0.0	0.0036	U	0.0180	0.0036	0.0057	J	0.019	0.004
Benzo(b)fluoranthene	76	--		0.68		0.026	0.005	0.14		0.027	0.005	0.24		0.0	0.0	0.0036	U	0.0180	0.0036	0.0063	J	0.019	0.004
Benzo(g,h,i)perylene	180	--		0.3		0.026	0.005	0.098		0.027	0.005	0.16		0.0	0.0	0.0036	U	0.0180	0.0036	0.0055	J	0.019	0.004
Chrysene	230	--		0.65		0.026	0.005	0.11		0.027	0.005	0.23		0.0	0.0	0.0036	U	0.0180	0.0036	0.0041	J	0.019	0.004
Fluorene	3,800	--		0.054		0.026	0.005	0.0151		0.027	0.005	0.054		0.0	0.0	0.0036	U	0.0180	0.0036	0.0038	U	0.019	0.004
Phenanthrene	10,000	--		0.79		0.026	0.006	0.17		0.027	0.007	0.32		0.0	0	0.0043	U	0.0180	0.0043	0.0046	U	0.019	0.005
Pyrene	2,200	--		1.5		0.026	0.005	0.19		0.027	0.005	0.41		0.0	0	0.0036	U	0.0180	0.0036	0.0051	J	0.019	0.004
Inorganics																							
Lead	450	--		87		2.200	0.900	85		2.100	0.820	88		2	8	1.6		1.5000	0.6200	5.6000		1.600	0.640

Table 1
Tank Containment Area 1 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: Area: Laboratory ID: Collection Date: Sample Depth:	7550-East 1 410-57140-3 9/29/2021 2.0				7551-P1 1 410-50281-4 8/6/2021 3.0				7551-P2 1 410-50281-6 8/6/2021 3.0				7551-P3 1 410-50281-9 8/6/2021 3.0				7551-P4 1 410-50503-2 8/6/2021 3.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																							
Ethylbenzene	70	46		0.00034	U	0.0043	0.00034	0.0006	U	0.0075	0.0006	0.00054	U	0.0068	0.00054	0.0005	U	0.0063	0.0005	0.00037	U	0.0046	0.00037
1,2-Dichloroethane	0.5	3.9		0.00052	U	0.0043	0.00052	0.0009	U	0.0075	0.0009	0.00082	U	0.0068	0.00082	0.00075	U	0.0063	0.00075	0.00055	U	0.0046	0.00055
1,3,5-Trimethylbenzene	93	93		0.00043	U	0.0043	0.00043	0.00331	J	0.0075	0.001	0.00068	U	0.0068	0.00068	0.000711	J	0.0063	0.001	0.00046	U	0.0046	0.00046
Toluene	100	44		0.00052	U	0.0043	0.00052	0.00191	J	0.0075	0.00090	0.00082	U	0.0068	0.00082	0.000841	J	0.0063	0.00075	0.00055	U	0.0046	0.00055
Xylenes, total	1,000	990		0.001	U	0.009	0.001	0.00311	J	0.015	0.002	0.0019	U	0.014	0.0019	0.002	U	0.013	0.002	0.0013	U	0.009	0.0013
Methyl tert-butyl ether	2.0	1.4		0.00043	U	0.0043	0.00043	0.00075	U	0.0075	0.00075	0.00068	U	0.0068	0.00068	0.00063	U	0.0063	0.00063	0.00046	U	0.0046	0.00046
Benzene	0.5	0.13		0.00043	U	0.0043	0.00043	0.00111	J	0.0075	0.00075	0.00068	U	0.0068	0.00068	0.000851	J	0.0063	0.00063	0.00046	U	0.0046	0.00046
Naphthalene	25	25		0.00170	U	0.0043	0.00170	0.00300	U	0.0075	0.00300	0.00270	U	0.0068	0.00270	0.00250	U	0.0063	0.00250	0.0018	U	0.0046	0.0018
1,2,4-Trimethylbenzene	300	300		0.00043	U	0.0043	0.00043	0.00581	J	0.0075	0.001	0.00068	U	0.0068	0.00068	0.000771	J	0.0063	0.00063	0.00046	U	0.0046	0.00046
Isopropylbenzene	2,500	2,500		0.00034	U	0.0043	0.00034	0.0006	U	0.0075	0.0006	0.00054	U	0.0068	0.00054	0.0005	U	0.0063	0.0005	0.00037	U	0.0046	0.00037
1,2,-Dibromoethane	0.005	0.0013		0.00034	U	0.0043	0.00034	0.0006	U	0.0075	0.0006	0.00054	U	0.0068	0.00054	0.0005	U	0.0063	0.0005	0.00037	U	0.0046	0.00037
Semivolatile Organic Compounds																							
Anthracene	350	--		0.0038	U	0.0190	0.0038	0.0990		0.056	0.011	2.90		0.023	0.005	0.065		0.023	0.005	0.034		0.019	0.004
Benzo(a)anthracene	130	--		0.00691	J	0.0190	0.0038	0.3300		0.056	0.011	4.30		0.023	0.005	0.220		0.023	0.005	0.120		0.019	0.004
Benzo(a)pyrene	46	--		0.00881	J	0.0190	0.0038	0.2600		0.056	0.011	3.20		0.023	0.005	0.200		0.023	0.005	0.110		0.019	0.004
Benzo(b)fluoranthene	76	--		0.00101	J	0.0190	0.0038	0.3700		0.056	0.011	3.50		0.023	0.005	0.230		0.023	0.005	0.120		0.019	0.004
Benzo(g,h,i)perylene	180	--		0.00721	J	0.0190	0.0038	0.2000		0.056	0.011	1.80		0.023	0.005	0.140		0.023	0.005	0.064		0.019	0.004
Chrysene	230	--		0.00791	J	0.0190	0.0038	0.2900		0.056	0.011	3.80		0.023	0.005	0.210		0.023	0.005	0.110		0.019	0.004
Fluorene	3,800	--		0.0038	U	0.0190	0.0038	0.0311		0.056	0.011	2.20		0.023	0.005	0.032		0.023	0.005	0.0141		0.019	0.004
Phenanthrene	10,000	--		0.00661	J	0.0190	0.0046	0.4500		0.056	0.013	12.0		0.110	0.027	0.260		0.023	0.006	0.130		0.019	0.005
Pyrene	2,200	--		0.0121	J	0.0190	0.0038	0.7100		0.056	0.011	7.80		0.110	0.023	0.340		0.023	0.005	0.190		0.019	0.004
Inorganics																							
Lead	450	--		3.2		1.5000	0.6100	42		2.100	0.860	37		1.800	0.740	44		1.900	0.760	29		1.600	0.640

Table 1
Tank Containment Area 1 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: Area: Laboratory ID: Collection Date: Sample Depth:	7551-P5 1 410-50281-2 8/6/2021 3.0				7551-P6 1 410-50281-18 8/6/2021 3.0				7551-P7 1 410-50281-16 8/6/2021 3.0				7551-Center 1 410-56522-15 9/23/2021 5.0				7551-North 1 410-57140-4 9/23/2021 5.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																							
Ethylbenzene	70	46		0.00044	U	0.0055	0.00044	4.10		0.46	0.037	0.0421	J	0.34	0.027	0.00072	U	0.009	0.00072	0.00073	U	0.0091	0.00073
1,2-Dichloroethane	0.5	3.9		0.00066	U	0.0055	0.00066	0.055	U	0.46	0.055	0.041	U	0.34	0.041	0.0011	U	0.009	0.0011	0.0011	U	0.0091	0.0011
1,3,5-Trimethylbenzene	93	93		0.00055	U	0.0055	0.00055	15		0.46	0.046	0.1801	J	0.34	0.034	0.0009	U	0.009	0.0009	0.00171	J	0.0091	0.001
Toluene	100	44		0.00066	U	0.0055	0.00066	8.40		0.46	0.05500	0.2201	J	0.34	0.04100	0.0011	U	0.009	0.0011	0.00231	J	0.0091	0.00110
Xylenes, total	1,000	990		0.0015	U	0.011	0.0015	31		0.920	0.130	0.3001	J	0.680	0.095	0.0025	U	0.018	0.0025	0.0026	U	0.018	0.0026
Methyl tert-butyl ether	2.0	1.4		0.00055	U	0.0055	0.00055	0.046	U	0.46	0.046	0.034	U	0.34	0.034	0.029	U	0.009	0.029	0.00651	J	0.0091	0.00091
Benzene	0.5	0.13		0.00055	U	0.0055	0.00055	0.72		0.46	0.046	0.034	U	0.34	0.034	0.0009	U	0.009	0.0009	0.00091	U	0.0091	0.00091
Naphthalene	25	25		0.0022	U	0.0055	0.0022	1.10		0.46	0.18000	0.14000	U	0.34	0.14000	0.0036	U	0.009	0.0036	0.0037	U	0.0091	0.0037
1,2,4-Trimethylbenzene	300	300		0.00055	U	0.0055	0.00055	51		4.6	0.460	0.420		0.34	0.034	0.0009	U	0.009	0.0009	0.00091	U	0.0091	0.00091
Isopropylbenzene	2,500	2,500		0.00044	U	0.0055	0.00044	2.0		0.46	0.037	0.027	U	0.34	0.027	0.00072	U	0.009	0.00072	0.00073	U	0.0091	0.00073
1,2,-Dibromoethane	0.005	0.0013		0.00044	U	0.0055	0.00044	***0.037***	U	0.46	0.037	***0.027***	U	0.34	0.027	0.00072	U	0.009	0.00072	0.00073	U	0.0091	0.00073
Semivolatile Organic Compounds																							
Anthracene	350	--		0.0036	U	0.018	0.004	0.0211	J	0.025	0.005	0.0181	J	0.020	0.004	0.0251	J	0.032	0.006	0.0211	J	0.028	0.006
Benzo(a)anthracene	130	--		0.0081	J	0.018	0.004	0.026		0.025	0.005	0.026		0.020	0.004	0.037		0.032	0.006	0.0057	U	0.028	0.006
Benzo(a)pyrene	46	--		0.0111	J	0.018	0.004	0.0171	J	0.025	0.005	0.039		0.020	0.004	0.06		0.032	0.006	0.0057	U	0.028	0.006
Benzo(b)fluoranthene	76	--		0.0151	J	0.018	0.004	0.029		0.025	0.005	0.048		0.020	0.004	0.076		0.032	0.006	0.0057	U	0.028	0.006
Benzo(g,h,i)perylene	180	--		0.00981	J	0.018	0.004	0.043		0.025	0.005	0.095		0.020	0.004	0.06		0.032	0.006	0.0057	U	0.028	0.006
Chrysene	230	--		0.0111	J	0.018	0.004	0.063		0.025	0.005	0.034		0.020	0.004	0.054		0.032	0.006	0.0057	U	0.028	0.006
Fluorene	3,800	--		0.0036	U	0.018	0.004	0.031		0.025	0.005	ND (0.004)		0.020	0.004	0.0141	J	0.032	0.006	0.0057	U	0.028	0.006
Phenanthrene	10,000	--		0.00811	J	0.018	0.004	0.074		0.025	0.006	0.035		0.020	0.005	0.1		0.032	0.008	0.00821	J	0.028	0.007
Pyrene	2,200	--		0.0161	J	0.018	0.004	0.036		0.025	0.005	0.044		0.020	0.004	0.081		0.032	0.006	0.0057	U	0.028	0.006
Inorganics																							
Lead	450	--		25		1.600	0.640	21		2.300	0.900	18		1.600	0.650	47		2.200	0.880	13		2.500	1.000

Table 1
Tank Containment Area 1 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: Area: Laboratory ID: Collection Date: Sample Depth:	410-57140-5 9/23/2021 5.0				7551-South 1 410-57140-7 9/23/2021 5.0				DUP-9 1 410-56522-16 9/23/2021				UNK-ST-S 1 410-50503-6 8/6/2021 3.0				UNK-ST-N 1 410-50503-7 8/6/2021 3.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																							
Ethylbenzene	70	46		0.046	U	0.58	0.046	0.00043	U	0.0054	0.00043	0.00066	U	0.0082	0.00066	0.000851	J	0.0079	0.00063	0.3101	J	0.43	0.034
1,2-Dichloroethane	0.5	3.9		0.07	U	0.58	0.07	0.00065	U	0.0054	0.00065	0.00098	U	0.0082	0.00098	0.00094	U	0.0079	0.00094	0.051	U	0.43	0.051
1,3,5-Trimethylbenzene	93	93		0.0811	J	0.58	0.058	0.00054	U	0.0054	0.00054	0.00082	U	0.0082	0.00082	0.00661	J	0.0079	0.001	1.10		0.43	0.043
Toluene	100	44		0.07	U	0.58	0.07	0.00065	U	0.0054	0.00065	0.00111	J	0.0082	0.00098	0.00281	J	0.0079	0.00094	0.740		0.43	0.05100
Xylenes, total	1,000	990		0.16	U	1.200	0.16	0.0015	U	0.011	0.0015	0.0023	U	0.016	0.0023	0.00721	J	0.016	0.002	2.40		0.860	0.120
Methyl tert-butyl ether	2.0	1.4		0.2401	J	0.58	0.058	0.00054	U	0.0054	0.00054	0.023		0.0082	0.00082	0.00181	J	0.0079	0.00079	0.043	U	0.43	0.043
Benzene	0.5	0.13		0.058	U	0.58	0.058	0.00054	U	0.0054	0.00054	0.00121	J	0.0082	0.00082	0.00181	J	0.0079	0.00079	0.560		0.43	0.043
Naphthalene	25	25		0.23	U	0.58	0.23	0.0022	U	0.0054	0.0022	0.0033	U	0.0082	0.0033	0.00331	J	0.0079	0.00310	3.40		0.43	0.17000
1,2,4-Trimethylbenzene	300	300		0.1701	J	0.58	0.058	0.00054	U	0.0054	0.00054	0.00082	U	0.0082	0.00082	0.012		0.0079	0.00079	2.80		0.43	0.043
Isopropylbenzene	2,500	2,500		0.046	U	0.58	0.046	0.00043	U	0.0054	0.00043	0.00066	U	0.0082	0.00066	0.00063	U	0.0079	0.00063	0.1201	J	0.43	0.034
1,2,-Dibromoethane	0.005	0.0013		***0.046***	U	0.58	0.046	0.00043	U	0.0054	0.00043	0.00066	U	0.0082	0.00066	0.00063	U	0.0079	0.00063	***0.034***	U	0.43	0.034
Semivolatile Organic Compounds																							
Anthracene	350	--		0.63		0.019	0.004	0.059		0.022	0.004	0.0221		0.028	0.006	0.0241	J	0.026	0.005	11		0.210	0.042
Benzo(a)anthracene	130	--		0.5		0.019	0.004	0.19		0.022	0.004	0.054		0.028	0.006	0.0251	J	0.026	0.005	8.70		0.210	0.042
Benzo(a)pyrene	46	--		0.27		0.019	0.004	0.16		0.022	0.004	0.058		0.028	0.006	0.0151	J	0.026	0.005	5.30		0.210	0.042
Benzo(b)fluoranthene	76	--		0.43		0.019	0.004	0.19		0.022	0.004	0.069		0.028	0.006	0.0231	J	0.026	0.005	6.80		0.210	0.042
Benzo(g,h,i)perylene	180	--		0.18		0.019	0.004	0.11		0.022	0.004	0.062		0.028	0.006	0.0052	U	0.026	0.005	2.70		0.021	0.004
Chrysene	230	--		0.53		0.019	0.004	0.16		0.022	0.004	0.068		0.028	0.006	0.0221	J	0.026	0.005	8.00		0.210	0.042
Fluorene	3,800	--		0.78		0.019	0.004	0.0171	J	0.022	0.004	0.00911		0.028	0.006	0.0052	U	0.026	0.005	3.80		0.021	0.004
Phenanthrene	10,000	--		4		0.019	0.005	0.19		0.022	0.005	0.091		0.028	0.007	0.200		0.026	0.006	29		0.210	0.051
Pyrene	2,200	--		1.8		0.019	0.004	0.32		0.022	0.004	0.099		0.028	0.006	0.098		0.026	0.005	15		0.210	0.042
Inorganics																							
Lead	450	--		36		1.600	0.660	32		2.000	0.790	42		2.000	0.780	39		2.200	0.870	65		1.600	0.640

Table 1
Tank Containment Area 1 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: Area: Laboratory ID: Collection Date: Sample Depth:	UNK-ST-W 1 410-56522-11 9/23/2021 3.0				UNK-ST-E 1 410-56522-12 9/23/2021 3.0				Pipe 68 1 410-50672-2 8/9/2021 2.0				Pipe 69 1 410-50672-1 8/9/2021 2.0				Pipe 70 1 410-50503-10 8/9/2021 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																							
Ethylbenzene	70	46		0.00067	U	0.0084	0.00067	0.00111	J	0.0058	0.00047	0.00059	U	0.0073	0.00059	0.062	U	0.77	0.062	0.0801	J	0.52	0.041
1,2-Dichloroethane	0.5	3.9		0.001	U	0.0084	0.001	0.0007	U	0.0058	0.0007	0.00088	U	0.0073	0.00088	0.093	U	0.77	0.093	0.062	U	0.52	0.062
1,3,5-Trimethylbenzene	93	93		0.00321	J	0.0084	0.001	0.0069		0.0058	0.001	0.00551	J	0.0073	0.001	0.5901	J	0.77	0.077	1.10		0.52	0.052
Toluene	100	44		0.00211	J	0.0084	0.00100	0.00571	J	0.0058	0.00070	0.00291	J	0.0073	0.00088	0.2101	J	0.77	0.09300	0.3201	J	0.52	0.06200
Xylenes, total	1,000	990		0.00301	J	0.017	0.002	0.0111	J	0.012	0.002	0.00641	J	0.015	0.002	0.3501	J	1.500	0.220	0.5901	J	1.000	0.140
Methyl tert-butyl ether	2.0	1.4		0.00084	U	0.0084	0.00084	0.00058	U	0.0058	0.00058	0.00073	U	0.0073	0.00073	0.077	U	0.77	0.077	0.052	U	0.52	0.052
Benzene	0.5	0.13		0.00151	J	0.0084	0.00084	0.00411	J	0.0058	0.00058	0.00171	J	0.0073	0.00073	0.077	U	0.77	0.077	0.052	U	0.52	0.052
Naphthalene	25	25		0.0034	U	0.0084	0.0034	0.009		0.0058	0.00230	0.00290	U	0.0073	0.00290	0.31000	U	0.77	0.31000	0.21000	U	0.52	0.21000
1,2,4-Trimethylbenzene	300	300		0.00231	J	0.0084	0.001	0.00491	J	0.0058	0.001	0.00541	J	0.0073	0.00073	0.6501	J	0.77	0.077	1.50		0.52	0.052
Isopropylbenzene	2,500	2,500		0.00067	U	0.0084	0.00067	0.00047	U	0.0058	0.00047	0.00059	U	0.0073	0.00059	0.062	U	0.77	0.062	0.041	U	0.52	0.041
1,2,-Dibromoethane	0.005	0.0013		0.00067	U	0.0084	0.00067	0.00047	U	0.0058	0.00047	0.00059	U	0.0073	0.00059	***0.062***	U	0.77	0.062	***0.041***	U	0.52	0.041
Semivolatile Organic Compounds																							
Anthracene	350	--		0.21		0.027	0.006	0.059		0.023	0.000	0.120		0.028	0.006	0.044		0.034	0.007	0.0053	U	0.027	0.005
Benzo(a)anthracene	130	--		1		0.027	0.006	0.25		0.023	0.000	0.360		0.028	0.006	0.150		0.034	0.007	0.046		0.027	0.005
Benzo(a)pyrene	46	--		0.77		0.027	0.006	0.22		0.023	0.000	0.310		0.028	0.006	0.054		0.034	0.007	0.056		0.027	0.005
Benzo(b)fluoranthene	76	--		1.1		0.027	0.006	0.31		0.023	0.000	0.370		0.028	0.006	0.095		0.034	0.007	0.069		0.027	0.005
Benzo(g,h,i)perylene	180	--		0.5		0.027	0.006	0.18		0.023	0.000	0.210		0.028	0.006	0.040		0.034	0.007	0.058		0.027	0.005
Chrysene	230	--		1.1		0.027	0.006	0.25		0.023	0.000	0.350		0.028	0.006	0.150		0.034	0.007	0.076		0.027	0.005
Fluorene	3,800	--		0.054		0.027	0.006	0.028		0.023	0.000	0.072		0.028	0.006	0.0131		0.034	0.007	0.590		0.027	0.005
Phenanthrene	10,000	--		0.63		0.027	0.007	0.22		0.023	0.006	0.460		0.028	0.007	0.510		0.034	0.008	0.760		0.027	0.006
Pyrene	2,200	--		2.5		0.027	0.006	0.41		0.023	0.000	0.620		0.028	0.006	0.540		0.034	0.007	0.470		0.027	0.005
Inorganics																							
Lead	450	--		120		2.300	0.930	49		1.800	0.730	240		2.200	0.870	89		2.600	1.000	750		2.300	0.920

Table 1
Tank Containment Area 1 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: Area: Laboratory ID: Collection Date: Sample Depth:	Dup-4 1 410-50503-11 8/9/2021				Pipe 71 1 410-50503-8 8/9/2021 2.0				Pipe 72 1 410-50503-9 8/9/2021 2.0				Pipe 74 1 410-50503-4 8/6/2021 2.0				Pipe 74 1 410-50672-16 8/10/2021 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																							
Ethylbenzene	70	46		0.1001	J	0.47	0.037	0.3501	J	0.49	0.039	0.029	U	0.37	0.029	0.0611	J	0.37	0.03	0.00065	U	0.0082	0.00065
1,2-Dichloroethane	0.5	3.9		0.056	U	0.47	0.056	0.059	U	0.49	0.059	0.044	U	0.37	0.044	0.045	U	0.37	0.045	0.00098	U	0.0082	0.00098
1,3,5-Trimethylbenzene	93	93		1.30		0.47	0.047	0.970		0.49	0.049	0.0881	J	0.37	0.037	0.0661	J	0.37	0.037	0.00082	U	0.0082	0.00082
Toluene	100	44		0.4501	J	0.47	0.05600	0.1701	J	0.49	0.05900	0.2301	J	0.37	0.04400	0.2801	J	0.37	0.04500	0.00141	J	0.0082	0.00098
Xylenes, total	1,000	990		0.7701	J	0.930	0.130	1.20		0.990	0.140	0.3301	J	0.730	0.100	0.2801	J	0.750	0.100	0.0023	U	0.016	0.0023
Methyl tert-butyl ether	2.0	1.4		0.047	U	0.47	0.047	0.049	U	0.49	0.049	0.037	U	0.37	0.037	0.037	U	0.37	0.037	0.00082	U	0.0082	0.00082
Benzene	0.5	0.13		0.0681	J	0.47	0.047	0.049	U	0.49	0.049	0.0491	J	0.37	0.03700	0.0551	J	0.37	0.037	0.00111	J	0.0082	0.00082
Naphthalene	25	25		0.19	U	0.47	0.19	0.2	U	0.49	0.2	0.15000	U	0.37	0.15000	0.430		0.37	0.15000	0.00330	U	0.0082	0.00330
1,2,4-Trimethylbenzene	300	300		2.10		0.47	0.047	1.90		0.49	0.049	0.1801	J	0.37	0.037	0.0921	J	0.37	0.037	0.00082	U	0.0082	0.00082
Isopropylbenzene	2,500	2,500		0.0411	J	0.47	0.037	0.580		0.49	0.039	0.029	U	0.37	0.029	0.670		0.37	0.03	0.00065	U	0.0082	0.00065
1,2,-Dibromoethane	0.005	0.0013		***0.037***	U	0.47	0.037	***0.039***	U	0.49	0.039	***0.029***	U	0.37	0.029	***0.03***	U	0.37	0.03	0.00065	U	0.0082	0.00065
Semivolatile Organic Compounds																							
Anthracene	350	--		0.0048	U	0.024	0.005	0.0053	U	0.027	0.005	0.038		0.022	0.005	1.50		0.022	0.004	0.0191	J	0.0	0.004
Benzo(a)anthracene	130	--		0.069		0.024	0.005	0.089		0.027	0.005	0.150		0.022	0.005	4.60		0.022	0.004	0.029		0.0	0.004
Benzo(a)pyrene	46	--		0.047		0.024	0.005	0.075		0.027	0.005	0.160		0.022	0.005	3.80		0.022	0.004	0.021		0.0	0.004
Benzo(b)fluoranthene	76	--		0.079		0.024	0.005	0.092		0.027	0.005	0.190		0.022	0.005	4.30		0.022	0.004	0.039		0.0	0.004
Benzo(g,h,i)perylene	180	--		0.054		0.024	0.005	0.086		0.027	0.005	0.130		0.022	0.005	2.60		0.022	0.004	0.0181	J	0.0	0.004
Chrysene	230	--		0.150		0.024	0.005	0.130		0.027	0.005	0.150		0.022	0.005	3.80		0.022	0.004	0.038		0.0	0.004
Fluorene	3,800	--		1.20		0.024	0.005	0.730	FL	0.027	0.005	0.0141		0.022	0.005	0.510		0.022	0.004	0.0041	U	0.0	0.004
Phenanthrene	10,000	--		1.90		0.024	0.006	0.680	FL	0.027	0.006	0.110		0.022	0.005	4.50		0.022	0.005	0.076		0.0	0.005
Pyrene	2,200	--		0.780		0.024	0.005	0.970		0.027	0.005	0.220		0.022	0.005	6.50		0.110	0.022	0.057		0.0	0.004
Inorganics																							
Lead	450	--		210		1.600	0.640	130		2.300	0.930	160		1.800	0.720	160		1.400	0.570	120		2	0.740

Table 1
Tank Containment Area 1 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: Area: Laboratory ID: Collection Date: Sample Depth:	Pipe 75 1 410-50281-3 8/6/2021 2.0				Pipe 76 1 410-50281-8 8/6/2021 2.0				Pipe 77 1 410-50281-7 8/6/2021 2.0				Pipe 78 1 410-50281-14 8/6/2021 2.0				Pipe 79 1 410-50281-15 8/6/2021 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																							
Ethylbenzene	70	46		0.0441	J	0.32	0.025	0.00038	U	0.0048	0.00038	1.40		0.36	0.029	0.1401	J	0.55	0.044	1.70		0.25	0.02
1,2-Dichloroethane	0.5	3.9		0.038	U	0.32	0.038	0.00057	U	0.0048	0.00057	0.044	U	0.36	0.044	0.065	U	0.55	0.065	0.03	U	0.25	0.03
1,3,5-Trimethylbenzene	93	93		0.1001	J	0.32	0.032	0.00048	U	0.0048	0.00048	8.10		0.36	0.036	1.10		0.55	0.055	0.0391	J	0.25	0.025
Toluene	100	44		0.1801	J	0.32	0.03800	0.00057	U	0.0048	0.00057	0.1001	J	0.36	0.04400	0.1101	J	0.55	0.06500	0.03	U	0.25	0.03
Xylenes, total	1,000	990		0.2401	J	0.640	0.089	0.0013	U	0.010	0.0013	3.50		0.730	0.100	0.4701	J	1.100	0.150	0.1101	J	0.510	0.071
Methyl tert-butyl ether	2.0	1.4		0.032	U	0.32	0.032	0.00111	J	0.0048	0.0048	0.036	U	0.36	0.036	0.055	U	0.55	0.055	0.025	U	0.25	0.025
Benzene	0.5	0.13		0.0391	J	0.32	0.032	0.00048	U	0.0048	0.00048	0.036	U	0.36	0.036	0.055	U	0.55	0.055	0.0261	J	0.25	0.02500
Naphthalene	25	25		0.13000	U	0.32	0.13000	0.0019	U	0.0048	0.0019	2.00		0.36	0.15000	0.2901	J	0.55	0.22000	0.820		0.25	0.02500
1,2,4-Trimethylbenzene	300	300		0.0651	J	0.32	0.032	0.00048	U	0.0048	0.00048	19.0		0.36	0.036	2.20		0.55	0.055	27		2.5	0.250
Isopropylbenzene	2,500	2,500		0.025	U	0.32	0.025	0.00038	U	0.0048	0.00038	1.80		0.36	0.029	0.1801	J	0.55	0.044	1.0		0.25	0.02
1,2,-Dibromoethane	0.005	0.0013		***0.025***	U	0.32	0.025	0.00038	U	0.0048	0.00038	***0.029***	U	0.36	0.029	***0.044***	U	0.55	0.044	***0.02***	U	0.25	0.02
Semivolatile Organic Compounds																							
Anthracene	350	--		0.004	U	0.021	0.004	0.0141	J	0.018	0.004	0.0045	U	0.022	0.005	0.031		0.028	0.006	0.035		0.018	0.004
Benzo(a)anthracene	130	--		0.017	J	0.021	0.004	0.083		0.018	0.004	0.190		0.022	0.005	0.0221	J	0.028	0.006	0.062		0.018	0.004
Benzo(a)pyrene	46	--		0.017	J	0.021	0.004	0.120		0.018	0.004	0.270		0.022	0.005	0.0211	J	0.028	0.006	0.047		0.018	0.004
Benzo(b)fluoranthene	76	--		0.027		0.021	0.004	0.190		0.018	0.004	0.200		0.022	0.005	0.040		0.028	0.006	0.044		0.018	0.004
Benzo(g,h,i)perylene	180	--		0.030		0.021	0.004	0.150		0.018	0.004	0.270		0.022	0.005	0.056		0.028	0.006	0.041		0.018	0.004
Chrysene	230	--		0.018	J	0.021	0.004	0.140		0.018	0.004	0.370		0.022	0.005	0.030		0.028	0.006	0.080		0.018	0.004
Fluorene	3,800	--		0.015	J	0.021	0.004	0.00561	J	0.018	0.004	0.900		0.022	0.005	0.0055	U	0.028	0.006	0.130		0.018	0.004
Phenanthrene	10,000	--		0.005	U	0.021	0.005	0.076		0.018	0.004	0.870		0.022	0.005	0.064		0.028	0.007	0.190		0.018	0.004
Pyrene	2,200	--		0.048		0.021	0.004	0.180		0.018	0.004	0.560		0.022	0.005	0.054		0.028	0.006	0.100		0.018	0.004
Inorganics																							
Lead	450	--		190.000		1.000	1.000	270		1.600	0.620	210		1.800	0.710	94		1.900	0.740	14		1.300	0.510

Table 1
Tank Containment Area 1 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: Area: Laboratory ID: Collection Date: Sample Depth:	Pipe 80 1 410-50281-21 8/6/2021 2.0				DUP-3 1 410-50281-1 8/6/2021				Pipe 81 1 410-50281-19 8/6/2021 2.0				Pipe 82 1 410-50281-17 8/6/2021 2.0				Pipe 83 1 410-50281-20 8/6/2021 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																							
Ethylbenzene	70	46		0.00381	J	0.0059	0.00047	0.00481	J	0.0061	0.00049	0.00141	J	0.0056	0.00044	0.0011	J	0.0073	0.00058	0.00043	U	0.0054	0.00043
1,2-Dichloroethane	0.5	3.9		0.00071	U	0.0059	0.00071	0.00073	U	0.0061	0.00073	0.00131	J	0.0056	0.0067	0.00087	U	0.0073	0.00087	0.00065	U	0.0054	0.00065
1,3,5-Trimethylbenzene	93	93		0.00141	J	0.0059	0.001	0.00151	J	0.0061	0.001	0.001	U	0.001	0.001	0.000731	J	0.0073	0.001	0.00054	U	0.0054	0.00054
Toluene	100	44		0.011		0.0059	0.00071	0.012		0.0061	0.00073	0.031		0.0056	0.00067	0.00681	J	0.0073	0.00087	0.0055		0.0054	0.00065
Xylenes, total	1,000	990		0.012		0.012	0.002	0.014		0.012	0.002	0.00731	J	0.011	0.002	0.00591	J	0.015	0.002	0.00281	J	0.011	0.002
Methyl tert-butyl ether	2.0	1.4		0.00059	U	0.0059	0.00059	0.00061	U	0.0061	0.00061	0.0056	U	0.0056	0.00056	0.00073	U	0.0073	0.00073	0.00054	U	0.0054	0.00054
Benzene	0.5	0.13		0.00381	J	0.0059	0.00059	0.00431	J	0.0061	0.00061	0.012		0.0056	0.00056	0.00621	J	0.0073	0.00073	0.00381	J	0.0054	0.00054
Naphthalene	25	25		0.00240	U	0.0059	0.00240	0.00361	J	0.0061	0.00240	0.00220	U	0.0056	0.00220	0.00290	U	0.0073	0.00290	0.00220	U	0.0054	0.00220
1,2,4-Trimethylbenzene	300	300		0.00571	J	0.0059	0.00059	0.0073		0.0061	0.001	0.00111	J	0.0056	0.001	0.00121	J	0.0073	0.001	0.000581	J	0.0054	0.001
Isopropylbenzene	2,500	2,500		0.00047	U	0.0059	0.00047	0.000541	J	0.0061	0.0049	0.00044	U	0.0056	0.00044	0.00058	U	0.0073	0.00058	0.00043	U	0.0054	0.00043
1,2,-Dibromoethane	0.005	0.0013		0.00047	U	0.0059	0.00047	***0.0049***	U	0.0061	0.0049	0.00044	U	0.0056	0.00044	0.00058	U	0.0073	0.00058	0.00043	U	0.0054	0.00043
Semivolatile Organic Compounds																							
Anthracene	350	--		0.033		0.019	0.004	0.0071	J	0.019	0.004	0.048		0.020	0.004	0.110		0.024	0.005	0.055		0.020	0.004
Benzo(a)anthracene	130	--		0.057		0.019	0.004	0.019	FH F2	0.019	0.004	0.120		0.020	0.004	0.360		0.024	0.005	0.350		0.020	0.004
Benzo(a)pyrene	46	--		0.094		0.019	0.004	0.022		0.019	0.004	0.330		0.020	0.004	0.390		0.024	0.005	0.330		0.020	0.004
Benzo(b)fluoranthene	76	--		0.100		0.019	0.004	0.025		0.019	0.004	0.370		0.020	0.004	0.510		0.024	0.005	0.490		0.020	0.004
Benzo(g,h,i)perylene	180	--		0.110		0.019	0.004	0.024		0.019	0.004	0.430		0.020	0.004	0.390		0.024	0.005	0.300		0.020	0.004
Chrysene	230	--		0.065		0.019	0.004	0.020	F2	0.019	0.004	0.130		0.020	0.004	0.390		0.024	0.005	0.370		0.020	0.004
Fluorene	3,800	--		0.021		0.019	0.004	0.00491	J	0.019	0.004	0.0121	J	0.020	0.004	0.032		0.024	0.005	0.0151		0.020	0.004
Phenanthrene	10,000	--		0.110		0.019	0.005	0.026	FH F2	0.019	0.005	0.097		0.020	0.005	0.450		0.024	0.006	0.190		0.020	0.005
Pyrene	2,200	--		0.120		0.019	0.004	0.034	FH F2	0.019	0.004	0.140		0.020	0.004	0.570		0.024	0.005	0.560		0.020	0.004
Inorganics																							
Lead	450	--		30		1.400	0.560	26		1.600	0.630	500		1.400	0.560	200		1.900	0.780	76		1.200	0.500

Table 1
Tank Containment Area 1 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: Area: Laboratory ID: Collection Date: Sample Depth:	Pipe 84 1 410-50503-5 8/6/2021 2.0				Pipe 85 1 410-50503-1 8/6/2021 2.0				Pipe 86 1 410-50503-3 8/6/2021 2.0				Pipe 87 1 410-50281-5 8/6/2021 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																			
Ethylbenzene	70	46		0.000431	J	0.0047	0.00037	0.083	U	1	0.083	0.032	U	0.41	0.032	0.1001	J	0.33	0.026
1,2-Dichloroethane	0.5	3.9		0.00056	U	0.0047	0.00056	0.13	U	1	0.13	0.049	U	0.41	0.049	0.04	U	0.33	0.04
1,3,5-Trimethylbenzene	93	93		0.000781	J	0.0047	0.000	0.01	U	1	0.01	0.041	U	0.41	0.041	0.033	U	0.33	0.033
Toluene	100	44		0.00251	J	0.0047	0.00056	0.13	U	1	0.13	0.0531	J	0.41	0.04900	0.0791	J	0.33	0.04000
Xylenes, total	1,000	990		0.00231	J	0.009	0.001	0.29	U	2.100	0.29	0.11	U	0.810	0.11	0.1201	J	0.660	0.093
Methyl tert-butyl ether	2.0	1.4		0.00047	U	0.0047	0.00047	0.1	U	1	0.1	0.041	U	0.41	0.041	0.033	U	0.33	0.033
Benzene	0.5	0.13		0.0086		0.0047	0.00047	0.1	U	1	0.1	0.041	U	0.41	0.041	0.033	U	0.33	0.033
Naphthalene	25	25		0.00321	J	0.0047	0.00190	0.42	U	1	0.42	0.16	U	0.41	0.16	0.13	U	0.33	0.13
1,2,4-Trimethylbenzene	300	300		0.000771	J	0.0047	0.000	0.1	U	1	0.1	0.041	U	0.41	0.041	0.1001	J	0.33	0.033
Isopropylbenzene	2,500	2,500		0.00037	U	0.0047	0.00037	0.083	U	1	0.083	0.0481	J	0.41	0.032	0.026	U	0.33	0.026
1,2,-Dibromoethane	0.005	0.0013		0.00037	U	0.0047	0.00037	***0.083***	U	1	0.083	***0.032***	U	0.41	0.032	***0.026***	U	0.33	0.026
Semivolatile Organic Compounds																			
Anthracene	350	--		1.50		0.018	0.004	0.320		0.022	0.004	3.20		0.023	0.005	0.250		0.020	0.004
Benzo(a)anthracene	130	--		3.40		0.018	0.004	0.590		0.022	0.004	1.20		0.230	0.046	0.570		0.020	0.004
Benzo(a)pyrene	46	--		2.60		0.018	0.004	0.560		0.022	0.004	7.90		0.230	0.046	0.640		0.020	0.004
Benzo(b)fluoranthene	76	--		3.10		0.018	0.004	0.750		0.022	0.004	9.90		0.230	0.046	0.730		0.020	0.004
Benzo(g,h,i)perylene	180	--		1.60		0.018	0.004	0.460		0.022	0.004	4.50		0.023	0.005	0.590		0.020	0.004
Chrysene	230	--		2.80		0.018	0.004	0.650		0.022	0.004	10		0.230	0.046	0.510		0.020	0.004
Fluorene	3,800	--		0.610		0.018	0.004	0.490		0.022	0.004	0.850		0.023	0.005	0.180		0.020	0.004
Phenanthrene	10,000	--		4.80		0.180	0.043	0.910		0.022	0.005	11		0.230	0.055	0.260		0.020	0.005
Pyrene	2,200	--		5.50		0.180	0.036	1.20		0.022	0.004	16		0.230	0.046	1.10		0.020	0.004
Inorganics																			
Lead	450	--		51		1.500	0.590	180		1.700	0.670	540		1.500	0.580	720		1.400	0.550

Table 1
Tank Containment Area 1 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Notes:
1. Samples were collected by Stantec Consulting Services, Inc. on behalf of PBF Logistics Products Terminals LLC.
2. Concentrations are reported in milligrams per kilogram.
3. Shaded results indicate detected concentrations in exceedance of the Representative Pennsylvania Soil MSCs.
4. Underlined results indicate detected concentrations in exceedance of the Pennsylvania Non-Residential Vapor Intrusion screening values.
5. ***Bold and italicized*** values indicate a non-detected result with the MDL greater than the MSC.

Acronyms and Abbreviations:
' = foot/feet
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
AST = aboveground storage tank
Conc. = concentration
GW = groundwater
ID = identification
MDL = method detection limit
MSC = Medium Specific Concentration
ND = not detected
Q = qualifier
RL = reporting limit

Laboratory Qualifiers:
J = The compound was detected; however, the concentration is below the laboratory reporting limit, so the concentration is estimated.
U = Compound was undetected at the listed laboratory method detection limit.

Table 2
Tank Containment Area 1 - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: Tank Containment Area Laboratory ID: Collection Date: Sample Depth: Sample Matrix:	SB-101 (1.5-2) 1 L2158500-01 10/25/2021 1.5-2 SOIL				SB-102 (2.5-3) 1 L2158500-02 10/25/2021 2.5-3 SOIL				SB-103 (4.5-5) 1 L2158500-03 10/25/2021 4.5-5 SOIL				SB-104 (4.5-5) 1 L2158500-04 10/25/2021 4.5-5 SOIL				SB-105 (4.5-5) 1 L2158500-05 10/25/2021 4.5-5 SOIL				SB-106 (4.5-5) 1 L2158500-06 10/25/2021 4.5-5 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
1,1,1-Trichloroethane	20	7.4		0.019	U	0.056	0.019	0.00019	U	0.00057	0.00019	0.044	U	0.13	0.044	0.05	U	0.15	0.05	0.024	U	0.073	0.024	0.00029	U	0.00086	0.00029
1,1,2,2-Tetrachloroethane	0.43	0.13		0.019	U	0.056	0.019	0.00019	U	0.00057	0.00019	0.043	U	0.13	0.043	0.049	U	0.15	0.049	0.024	U	0.073	0.024	0.00029	U	0.00086	0.00029
1,1,2-Trichloro-1,2,2-Trifluoroethane	10,000	10,000		0.078	U	0.45	0.078	0.0008	U	0.0046	0.0008	0.18	U	1	0.18	0.2	U	1.2	0.2	0.1	U	0.59	0.1	0.0012	U	0.0069	0.0012
1,1,2-Trichloroethane	0.5	0.15		0.03	U	0.11	0.03	0.00031	U	0.0011	0.00031	0.07	U	0.26	0.07	0.079	U	0.3	0.079	0.039	U	0.15	0.039	0.00046	U	0.0017	0.00046
1,1-Dichloroethane	16	3.9		0.016	U	0.11	0.016	0.00017	U	0.0011	0.00017	0.038	U	0.26	0.038	0.043	U	0.3	0.043	0.021	U	0.15	0.021	0.00025	U	0.0017	0.00025
1,1-Dichloroethene	0.7	0.19		0.027	U	0.11	0.027	0.00027	U	0.0011	0.00027	0.062	U	0.26	0.062	0.07	U	0.3	0.07	0.035	U	0.15	0.035	0.00041	U	0.0017	0.00041
1,2,3-Trichlorobenzene	--	--		0.036	U	0.23	0.036	0.00037	U	0.0023	0.00037	0.084	U	0.52	0.084	0.095	U	0.59	0.095	0.047	U	0.29	0.047	0.00056	U	0.0034	0.00056
1,2,4-Trichlorobenzene	27	27		0.031	U	0.23	0.031	0.00031	U	0.0023	0.00031	0.071	U	0.52	0.071	0.081	U	0.59	0.081	0.04	U	0.29	0.04	0.00047	U	0.0034	0.00047
1,2,4-Trimethylbenzene	300	300		30		0.23	0.038	0.0035		0.0023	0.00038	130	E	0.52	0.087	7.3		0.59	0.099	38		0.29	0.049	0.017		0.0034	0.00058
1,2-Dibromo-3-chloropropane	0.02	0.0092		***0.11***	U	0.34	0.11	0.0011	U	0.0034	0.0011	***0.26***	U	0.78	0.26	***0.3***	U	0.89	0.3	0.15	U	0.44	0.15	0.0017	U	0.0052	0.0017
1,2-Dibromoethane	0.005	0.0013		***0.033***	U	0.056	0.033	0.00034	U	0.00057	0.00034	***0.077***	U	0.13	0.077	***0.087***	U	0.15	0.087	***0.043***	U	0.073	0.043	0.0005	U	0.00086	0.0005
1,2-Dichlorobenzene	60	59		0.016	U	0.23	0.016	0.00016	U	0.0023	0.00016	0.35	J	0.52	0.038	0.043	U	0.59	0.043	0.021	U	0.29	0.021	0.00025	U	0.0034	0.00025
1,2-Dichloroethane	0.5	0.1		0.029	U	0.11	0.029	0.0003	U	0.0011	0.0003	0.067	U	0.26	0.067	0.076	U	0.3	0.076	0.038	U	0.15	0.038	0.00044	U	0.0017	0.00044
1,2-Dichloroethene, total	--	--		0.015	U	0.11	0.015	0.00016	U	0.0011	0.00016	0.036	U	0.26	0.036	0.041	U	0.3	0.041	0.02	U	0.15	0.02	0.00024	U	0.0017	0.00024
1,2-Dichloropropane	0.5	0.11		0.014	U	0.11	0.014	0.00014	U	0.0011	0.00014	0.033	U	0.26	0.033	0.037	U	0.3	0.037	0.018	U	0.15	0.018	0.00022	U	0.0017	0.00022
1,3,5-Trimethylbenzene	93	93		-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
1,3-Dichlorobenzene	61	NS		0.017	U	0.23	0.017	0.00017	U	0.0023	0.00017	0.039	U	0.52	0.039	0.044	U	0.59	0.044	0.022	U	0.29	0.022	0.00026	U	0.0034	0.00026
1,3-Dichloropropene, total	2.7	0.48		0.018	U	0.056	0.018	0.00018	U	0.00057	0.00018	0.041	U	0.13	0.041	0.047	U	0.15	0.047	0.023	U	0.073	0.023	0.00027	U	0.00086	0.00027
1,4-Dichlorobenzene	10	10		0.019	U	0.23	0.019	0.0002	U	0.0023	0.0002	0.05	J	0.52	0.045	0.051	U	0.59	0.051	0.025	U	0.29	0.025	0.00029	U	0.0034	0.00029
1,4-Dioxane	2.7	9		4	U	9	4	0.04	U	0.092	0.04	9.2	U	21	9.2	10	U	24	10	5.2	U	12	5.2	0.06	U	0.14	0.06
2-Butanone	400	1,100		0.25	U	1.1	0.25	0.0025	U	0.011	0.0025	0.58	U	2.6	0.58	0.66	U	3	0.66	0.33	U	1.5	0.33	0.0038	U	0.017	0.0038
2-Hexanone	26	6.4		0.13	U	1.1	0.13	0.0014	U	0.011	0.0014	0.31	U	2.6	0.31	0.35	U	3	0.35	0.17	U	1.5	0.17	0.002	U	0.017	0.002
4-Methyl-2-pentanone	780	210		0.14	U	1.1	0.14	0.0015	U	0.011	0.0015	0.33	U	2.6	0.33	0.38	U	3	0.38	0.19	U	1.5	0.19	0.0022	U	0.017	0.0022
Acetone	8,800	4,700		0.54	U	1.1	0.54	0.011	U	0.029	0.011	1.2	U	2.6	1.2	1.4	U	3	1.4	0.71	U	1.5	0.71	0.038	J	0.043	0.017
Benzene	0.5	0.13		0.16		0.056	0.019	0.00026	J	0.00057	0.00019	0.043	U	0.13	0.043	0.049	U	0.15	0.049	1.8		0.073	0.024	0.0094		0.00086	0.00029
Bromochloromethane	9	1.6		0.023	U	0.23	0.023	0.00024	U	0.0023	0.00024	0.054	U	0.52	0.054	0.061	U	0.59	0.061	0.03	U	0.29	0.03	0.00035	U	0.0034	0.00035
Bromodichloromethane	8	2.7		0.012	U	0.056	0.012	0.00012	U	0.00057	0.00012	0.028	U	0.13	0.028	0.032	U	0.15	0.032	0.016	U	0.073	0.016	0.00019	U	0.00086	0.00019
Bromoform	8	3.5		0.028	U	0.45	0.028	0.00028	U	0.0046	0.00028	0.064	U	1	0.064	0.073	U	1.2	0.073	0.036	U	0.59	0.036	0.00042	U	0.0069	0.00042
Bromomethane	1	0.54		0.066	U	0.23	0.066	0.00067	U	0.0023	0.00067	0.15	U	0.52	0.15	0.17	U	0.59	0.17	0.085	U	0.29	0.085	0.001	U	0.0034	0.001
Carbon disulfide	620	530		0.51	U	1.1	0.51	0.0052	U	0.011	0.0052	1.2	U	2.6	1.2	1.3	U	3	1.3	0.67	U	1.5	0.67	0.0078	U	0.017	0.0078
Carbon tetrachloride	0.5	0.26		0.026	U	0.11	0.026	0.00026	U	0.0011	0.00026	0.06	U	0.26	0.06	0.068	U	0.3	0.068	0.034	U	0.15	0.034	0.0004	U	0.0017	0.0004
Chlorobenzene	10	6.1		0.014	U	0.056	0.014	0.00014	U	0.00057	0.00014	0.033	U	0.13	0.033	0.038	U	0.15	0.038	0.019	U	0.073	0.019	0.00022	U	0.00086	0.00022
Chloroethane	8,800	1,900		0.051	U	0.23	0.051	0.00052	U	0.0023	0.00052	0.12	U	0.52	0.12	0.13	U	0.59	0.13	0.066	U	0.29	0.066	0.00078	U	0.0034	0.00078
Chloroform	8	2		0.016	U	0.17	0.016	0.00016	U	0.0017	0.00016	0.037	U	0.39	0.037	0.042	U	0.44	0.042	0.02	U	0.22	0.02	0.00024	U	0.0026	0.00024
Chloromethane	3	0.38		0.1	U	0.45	0.1	0.0011	U	0.0046	0.0011	0.24	U	1	0.24	0.28	U	1.2	0.28	0.14	U	0.59	0.14	0.0016	U	0.0069	0.0016
cis-1,2-Dichloroethene	7	--		0.02	U	0.11	0.02	0.0002	U	0.0011	0.0002	0.046	U	0.26	0.046	0.052	U	0.3	0.052	0.026	U	0.15	0.026	0.0003	U	0.0017	0.0003
cis-1,3-Dichloropropene	3.4	--		0.018	U	0.056	0.018	0.00018	U	0.00057	0.00018	0.041	U	0.13	0.041	0.047	U	0.15	0.047	0.023	U	0.073	0.023	0.00027	U	0.00086	0.00027
Cyclohexane	6,900	6,900		2.2		1.1	0.061	0.00062	U	0.011	0.00062	19		2.6	0.14	6.6		3	0.16	1.2	J	1.5	0.08	0.0043	J	0.017	0.00094
Dibromochloromethane	8	2.5		0.016	U	0.11	0.016	0.00016	U	0.0011	0.00016	0.037	U	0.26	0.037	0.042	U	0.3	0.042	0.02	U	0.15	0.02	0.00024	U	0.0017	0.00024
Dichlorodifluoromethane	100	100		0.1	U	1.1	0.1	0.001	U	0.011	0.001	0.24	U	2.6	0.24	0.27	U	3	0.27	0.13	U	1.5	0.13	0.0016	U	0.017	0.0016
Ethylbenzene	70	46		0.84		0.11	0.016	0.00037	J	0.0011	0.00016	12		0.26	0.037	0.15	J	0.3	0.042	8.3		0.15	0.021	0.0054		0.0017	0.00024
Isopropylbenzene	2,500	2,500		0.76		0.11	0.012	0.00015	J	0.0011	0.00012	12		0.26	0.028	0.33		0.3	0.032	4.4		0.15	0.016	0.0026		0.0017	0.00019
Methyl acetate	9,700	--		0.11	U	0.45	0.11	0.0011	U	0.0046	0.0011	0.25	U	1	0.25	0.28	U	1.2	0.28	0.14	U	0.59	0.14	0.0016	U	0.0069	0.0016
Methyl cyclohexane	--	--		9.2		0.45	0.068	0.00069	U	0.0046	0.00069	65		1	0.16	24		1.2	0.18	1.8		0.59	0.088	0.0014	J	0.0069	0.001
Methyl tert-butyl ether	2	1.4		0.023	U	0.23	0.023	0.00023	U	0.0023	0.00023	0.052	U	0.52	0.052	0.06	U	0.59	0.06	0.03	U	0.29	0.03	0.00049	J	0.0034	0.00035
Methylene chloride	0.5	1.5		0.26	U	0.56	0.26	0.0026	U	0.0057	0.0026	0.6	U	1.3	0.6	0.68	U	1.5	0.68	0.34	U	0.73	0.34	0.0039	U	0.0086	0.0039
Naphthalene	25	25		-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
o-Xylene	1,000	--		1.1		0.11	0.033	0.00068	J	0.0011	0.00033	2.2		0.26	0.076	0.31		0.3	0.086	4		0.15	0.043	0.028		0.0017	0.0005
p/m-Xylene	1,000	--		3.5		0.23	0.063	0.0016	J	0.0023	0.00064	9.5		0.52	0.15	0.56	J	0.59	0.17	20		0.29	0.082	0.019		0.0034	0.00096
Styrene	24	79		0.022	U	0.11	0.022	0.00022	U	0.0011	0.00022	0.051	U	0.26	0.051	0.058	U	0.3	0.058	0.029	U	0.15	0.029	0.0009	J	0.0017	0.00034
Tetrachloroethene	0.5	0.43		0.022	U	0.056	0.022	0.00022	U	0.00057	0.00022	0.051	U	0.13	0.051	0.058	U	0.15	0.058	0.029	U	0.073	0.029	0.00034	U	0.00086	0.00034
Toluene	100	44		0.78		0.11	0.061	0.00096	J	0.0011	0.00062	0.22	J	0.26	0.14	0.16	U	0.3	0.16	5.5		0.15	0.08	0.017		0.0017	0.00094
trans-1,2-Dichloroethene	10	2.3		0.015	U	0.17	0.015	0.00016	U	0.0017	0.00016	0.036	U	0.39	0.036	0.041	U	0.44	0.041	0.02	U	0.22	0.02	0.00024	U	0.0026	0.00024
trans-1,3-Dichloropropene	3.4	--		0.031	U	0.11	0.031	0.00031	U	0.0011	0.00031	0.071	U	0.26	0.071	0.081	U	0.3	0.081	0.04	U	0.15	0.04	0.00047	U	0.0017	0.00047
Trichloroethene	0.5	0.17		0.015	U	0.056	0.015	0.00016	U	0.00057	0.00016	0.036	U	0.13	0.036	0.041	U	0.15	0.041	0.02	U	0.073	0.02	0.00024	U	0.00086	0.00024
Trichlorofluoromethane	200	87		0.078	U	0.45	0.078	0.0008	U	0.0046	0.0008	0.18	U	1	0.18	0.21	U	1.2	0.21	0.1	U	0.59	0.1	0.0012	U	0.0069	0.0012
Vinyl chloride	0.2	0.027		0.038	U	0.11	0.038	0.00038	U	0.0011	0.00038	0.088	U	0.26	0.088	0.099	U	0.3	0.099	0.049	U	0.15	0.049	0.00058	U	0.0017	0.00058
Xylenes, total	1,000	990		4.6		0.11	0.033	0.0023	J	0.0011	0.00033	12		0.26	0.076	0.87	J	0.3	0.086	24		0.15	0.043	0.047		0.0017	0.0005
Total Inorganics																											
Lead, total	450	--		-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
General Chemistry																											
Solids, total	--	--		70.1		0.1	-	82.3		0.1	-	63.1		0.1	-	53.3		0.1	-	55		0.1	-	71.8		0.1	-

Table 2
Tank Containment Area 1 - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: Tank Containment Area Laboratory ID: Collection Date: Sample Depth: Sample Matrix:	SB-107 (4.5-5) 1 L2158500-07 10/25/2021 4.5-5 SOIL				SB-205 (3.5-4) 1 L2213931-06 3/16/2022 3.5-4 SOIL				SB-206 (2.5-3) 1 L2213931-07 3/17/2022 2.5-3 SOIL				SB-207 (4-4.5) 1 L2213931-08 3/17/2022 4-4.5 SOIL				SB-207 (4-4.5) 1 L2213931-08 3/17/2022 4-4.5 SOIL				SB-208 (4-4.5) 1 L2213931-09 3/17/2022 4-4.5 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
1,1,1-Trichloroethane	20	7.4		0.00035	U	0.0011	0.00035	0.056	U	0.17	0.056	0.00034	U	0.001	0.00034	0.00026	U	0.00077	0.00026	0.018	U	0.053	0.018	0.00022	U	0.00064	0.00022
1,1,2,2-Tetrachloroethane	0.43	0.13		0.00035	U	0.0011	0.00035	0.055	U	0.17	0.055	0.00034	U	0.001	0.00034	0.00026	U	0.00077	0.00026	0.018	U	0.053	0.018	0.00021	U	0.00064	0.00021
1,1,2-Trichloro-1,2,2-Trifluoroethane	10,000	10,000		0.0015	U	0.0085	0.0015	0.23	U	1.3	0.23	0.0014	U	0.0082	0.0014	0.0011	U	0.0062	0.0011	0.074	U	0.42	0.074	0.00089	U	0.0052	0.00089
1,1,2-Trichloroethane	0.5	0.15		0.00057	U	0.0021	0.00057	0.089	U	0.33	0.089	0.00054	U	0.002	0.00054	0.00041	U	0.0015	0.00041	0.028	U	0.11	0.028	0.00034	U	0.0013	0.00034
1,1-Dichloroethane	16	3.9		0.00031	U	0.0021	0.00031	0.048	U	0.33	0.048	0.0003	U	0.002	0.0003	0.00022	U	0.0015	0.00022	0.015	U	0.11	0.015	0.00019	U	0.0013	0.00019
1,1-Dichloroethene	0.7	0.19		0.0005	U	0.0021	0.0005	0.079	U	0.33	0.079	0.00048	U	0.002	0.00048	0.00037	U	0.0015	0.00037	0.025	U	0.11	0.025	0.00031	U	0.0013	0.00031
1,2,3-Trichlorobenzene	--	--		0.00068	U	0.0042	0.00068	0.11	U	0.67	0.11	0.00066	U	0.0041	0.00066	0.0005	U	0.0031	0.0005	0.034	U	0.21	0.034	0.00042	U	0.0026	0.00042
1,2,4-Trichlorobenzene	27	27		0.00058	U	0.0042	0.00058	0.091	U	0.67	0.091	0.00056	U	0.0041	0.00056	0.00042	U	0.0031	0.00042	0.029	U	0.21	0.029	0.00035	U	0.0026	0.00035
1,2,4-Trimethylbenzene	300	300		0.00076	J	0.0042	0.00071	2.7		0.67	0.11	0.022		0.0041	0.00068	0.047		0.0031	0.00052	0.47		0.21	0.035	0.00043	U	0.0026	0.00043
1,2-Dibromo-3-chloropropane	0.02	0.0092		0.0021	U	0.0064	0.0021	***0.33***	U	1	0.33	0.002	U	0.0061	0.002	0.0015	U	0.0046	0.0015	***0.1***	U	0.32	0.1	0.0013	U	0.0039	0.0013
1,2-Dibromoethane	0.005	0.0013		0.00062	U	0.0011	0.00062	***0.098***	U	0.17	0.098	0.0006	U	0.001	0.0006	0.00045	U	0.00077	0.00045	***0.031***	U	0.053	0.031	0.00038	U	0.00064	0.00038
1,2-Dichlorobenzene	60	59		0.0003	U	0.0042	0.0003	0.048	U	0.67	0.048	0.00029	U	0.0041	0.00029	0.00022	U	0.0031	0.00022	0.015	U	0.21	0.015	0.00018	U	0.0026	0.00018
1,2-Dichloroethane	0.5	0.1		0.00054	U	0.0021	0.00054	0.086	U	0.33	0.086	0.00052	U	0.002	0.00052	0.0004	U	0.0015	0.0004	0.027	U	0.11	0.027	0.00033	U	0.0013	0.00033
1,2-Dichloroethene, total	--	--		0.00029	U	0.0021	0.00029	0.046	U	0.33	0.046	0.00028	U	0.002	0.00028	0.00021	U	0.0015	0.00021	0.014	U	0.11	0.014	0.00018	U	0.0013	0.00018
1,2-Dichloropropane	0.5	0.11		0.00026	U	0.0021	0.00026	0.042	U	0.33	0.042	0.00026	U	0.002	0.00026	0.00019	U	0.0015	0.00019	0.013	U	0.11	0.013	0.00016	U	0.0013	0.00016
1,3,5-Trimethylbenzene	93	93		-		-	-	1.2		0.67	0.064	0.017		0.0041	0.00039	0.035		0.0031	0.0003	0.45		0.21	0.02	0.00025	U	0.0026	0.00025
1,3-Dichlorobenzene	61	NS		0.00031	U	0.0042	0.00031	0.049	U	0.67	0.049	0.0003	U	0.0041	0.0003	0.00023	U	0.0031	0.00023	0.016	U	0.21	0.016	0.00019	U	0.0026	0.00019
1,3-Dichloropropene, total	2.7	0.48		0.00034	U	0.0011	0.00034	0.053	U	0.17	0.053	0.00032	U	0.001	0.00032	0.00024	U	0.00077	0.00024	0.017	U	0.053	0.017	0.0002	U	0.00064	0.0002
1,4-Dichlorobenzene	10	10		0.00036	U	0.0042	0.00036	0.057	U	0.67	0.057	0.00035	U	0.0041	0.00035	0.00026	U	0.0031	0.00026	0.018	U	0.21	0.018	0.00022	U	0.0026	0.00022
1,4-Dioxane	2.7	9		0.074	U	0.17	0.074	12	U	27	12	0.072	U	0.16	0.072	0.054	U	0.12	0.054	3.7	U	8.5	3.7	0.045	U	0.1	0.045
2-Butanone	400	1,100		0.0047	U	0.021	0.0047	0.74	U	3.3	0.74	0.0045	U	0.02	0.0045	0.01	J	0.015	0.0034	0.24	U	1.1	0.24	0.0064	J	0.013	0.0029
2-Hexanone	26	6.4		0.0025	U	0.021	0.0025	0.39	U	3.3	0.39	0.0024	U	0.02	0.0024	0.0018	U	0.015	0.0018	0.12	U	1.1	0.12	0.0015	U	0.013	0.0015
4-Methyl-2-pentanone	780	210		0.0027	U	0.021	0.0027	0.43	U	3.3	0.43	0.0026	U	0.02	0.0026	0.002	U	0.015	0.002	0.14	U	1.1	0.14	0.0016	U	0.013	0.0016
Acetone	8,800	4,700		0.079		0.053	0.021	1.6	U	3.3	1.6	0.02	U	0.051	0.02	0.069		0.039	0.015	0.51	U	1.1	0.51	0.042		0.032	0.013
Benzene	0.5	0.13		0.00035	U	0.0011	0.00035	0.091	J	0.17	0.055	0.0031		0.001	0.00034	0.021		0.00077	0.00026	0.19		0.053	0.018	0.00021	U	0.00064	0.00021
Bromochloromethane	9	1.6		0.00044	U	0.0042	0.00044	0.068	U	0.67	0.068	0.00042	U	0.0041	0.00042	0.00032	U	0.0031	0.00032	0.022	U	0.21	0.022	0.00026	U	0.0026	0.00026
Bromodichloromethane	8	2.7		0.00023	U	0.0011	0.00023	0.036	U	0.17	0.036	0.00022	U	0.001	0.00022	0.00017	U	0.00077	0.00017	0.012	U	0.053	0.012	0.00014	U	0.00064	0.00014
Bromoform	8	3.5		0.00052	U	0.0085	0.00052	0.082	U	1.3	0.082	0.0005	U	0.0082	0.0005	0.00038	U	0.0062	0.00038	0.026	U	0.42	0.026	0.00032	U	0.0052	0.00032
Bromomethane	1	0.54		0.0012	U	0.0042	0.0012	0.19	U	0.67	0.19	0.0012	U	0.0041	0.0012	0.0009	U	0.0031	0.0009	0.062	U	0.21	0.062	0.00075	U	0.0026	0.00075
Carbon disulfide	620	530		0.0096	U	0.021	0.0096	1.5	U	3.3	1.5	0.0093	U	0.02	0.0093	0.007	U	0.015	0.007	0.48	U	1.1	0.48	0.0059	U	0.013	0.0059
Carbon tetrachloride	0.5	0.26		0.00049	U	0.0021	0.00049	0.077	U	0.33	0.077	0.00047	U	0.002	0.00047	0.00036	U	0.0015	0.00036	0.024	U	0.11	0.024	0.0003	U	0.0013	0.0003
Chlorobenzene	10	6.1		0.00027	U	0.0011	0.00027	0.042	U	0.17	0.042	0.00026	U	0.001	0.00026	0.0002	U	0.00077	0.0002	0.013	U	0.053	0.013	0.00016	U	0.00064	0.00016
Chloroethane	8,800	1,900		0.00096	U	0.0042	0.00096	0.15	U	0.67	0.15	0.00092	U	0.0041	0.00092	0.0007	U	0.0031	0.0007	0.048	U	0.21	0.048	0.00058	U	0.0026	0.00058
Chloroform	8	2		0.0003	U	0.0032	0.0003	0.047	U	0.5	0.047	0.00028	U	0.0031	0.00028	0.00022	U	0.0023	0.00022	0.015	U	0.16	0.015	0.00018	U	0.0019	0.00018
Chloromethane	3	0.38		0.002	U	0.0085	0.002	0.31	U	1.3	0.31	0.0019	U	0.0082	0.0019	0.0014	U	0.0062	0.0014	0.099	U	0.42	0.099	0.0012	U	0.0052	0.0012
cis-1,2-Dichloroethene	7	--		0.00037	U	0.0021	0.00037	0.058	U	0.33	0.058	0.00036	U	0.002	0.00036	0.00027	U	0.0015	0.00027	0.018	U	0.11	0.018	0.00022	U	0.0013	0.00022
cis-1,3-Dichloropropene	3.4	--		0.00034	U	0.0011	0.00034	0.053	U	0.17	0.053	0.00032	U	0.001	0.00032	0.00024	U	0.00077	0.00024	0.017	U	0.053	0.017	0.0002	U	0.00064	0.0002
Cyclohexane	6,900	6,900		0.0012	U	0.021	0.0012	2.7	J	3.3	0.18	0.0073	J	0.02	0.0011	0.05		0.015	0.00084	1.7		1.1	0.058	0.0007	U	0.013	0.0007
Dibromochloromethane	8	2.5		0.0003	U	0.0021	0.0003	0.047	U	0.33	0.047	0.00028	U	0.002	0.00028	0.00022	U	0.0015	0.00022	0.015	U	0.11	0.015	0.00018	U	0.0013	0.00018
Dichlorodifluoromethane	100	100		0.0019	U	0.021	0.0019	0.3	U	3.3	0.3	0.0019	U	0.02	0.0019	0.0014	U	0.015	0.0014	0.097	U	1.1	0.097	0.0012	U	0.013	0.0012
Ethylbenzene	70	46		0.0003	U	0.0021	0.0003	0.32	J	0.33	0.047	0.0054		0.002	0.00029	0.013		0.0015	0.00022	0.34		0.11	0.015	0.00018	U	0.0013	0.00018
Isopropylbenzene	2,500	2,500		0.00023	U	0.0021	0.00023	0.21	J	0.33	0.036	0.00067	J	0.002	0.00022	0.0078		0.0015	0.00017	0.12		0.11	0.012	0.00014	U	0.0013	0.00014
Methyl acetate	9,700	--		0.002	U	0.0085	0.002	0.32	U	1.3	0.32	0.0019	U	0.0082	0.0019	0.0015	U	0.0062	0.0015	0.1	U	0.42	0.1	0.0012	U	0.0052	0.0012
Methyl cyclohexane	--	--		0.0013	U	0.0085	0.0013	8		1.3	0.2	0.033		0.0082	0.0012	0.063		0.0062	0.00093	1.8		0.42	0.064	0.00078	U	0.0052	0.00078
Methyl tert-butyl ether	2	1.4		0.00043	U	0.0042	0.00043	0.067	U	0.67	0.067	0.00041	U	0.0041	0.00041	0.00031	U	0.0031	0.00031	0.029	J	0.21	0.021	0.00069	J	0.0026	0.00026
Methylene chloride	0.5	1.5		0.0048	U	0.011	0.0048	0.76	U	1.7	0.76	0.0047	U	0.01	0.0047	0.0035	U	0.0077	0.0035	0.24	U	0.53	0.24	0.003	U	0.0064	0.003
Naphthalene	25	25		-		-	-	0.39	J	1.3	0.22	0.0051	J	0.0082	0.0013	0.13		0.0062	0.001	0.15	J	0.42	0.069	0.00084	U	0.0052	0.00084
o-Xylene	1,000	--		0.00062	U	0.0021	0.00062	0.28	J	0.33	0.097	0.0066		0.002	0.00059	0.03		0.0015	0.00045	0.62		0.11	0.031	0.00038	U	0.0013	0.00038
p/m-Xylene	1,000	--		0.0012	U	0.0042	0.0012	1.4		0.67	0.19	0.025		0.0041	0.0011	0.025		0.0031	0.00087	0.85		0.21	0.059	0.00072	U	0.0026	0.00072
Styrene	24	79		0.00042	U	0.0021	0.00042	0.067	J	0.33	0.065	0.0005	J	0.002	0.0004	0.0003	U	0.0015	0.0003	0.021	U	0.11	0.021	0.00025	J	0.0013	0.00025
Tetrachloroethene	0.5	0.43		0.00042	U	0.0011	0.00042	0.065	U	0.17	0.065	0.0004	U	0.001	0.0004	0.0003	U	0.00077	0.0003	0.021	U	0.053	0.021	0.00025	U	0.00064	0.00025
Toluene	100	44		0.0012	U	0.0021	0.0012	0.62		0.33	0.18	0.013		0.002	0.0011	0.024		0.0015	0.00084	0.53		0.11	0.058	0.00095	J	0.0013	0.0007
trans-1,2-Dichloroethene	10	2.3		0.00029	U	0.0032	0.00029	0.046	U	0.5	0.046	0.00028	U	0.0031	0.00028	0.00021	U	0.0023	0.00021	0.014	U	0.16	0.014	0.00018	U	0.0019	0.00018
trans-1,3-Dichloropropene	3.4	--		0.00058	U	0.0021	0.00058	0.091	U	0.33	0.091	0.00056	U	0.002	0.00056	0.00042	U	0.0015	0.00042	0.029	U	0.11	0.029	0.00035	U	0.0013	0.00035
Trichloroethene	0.5	0.17		0.00029	U	0.0011	0.00029	0.046	U	0.17	0.046	0.00028	U	0.001	0.00028	0.00021	U	0.00077	0.00021	0.014	U	0.053	0.014	0.00018	U	0.00064	0.00018
Trichlorofluoromethane	200	87		0.0015	U	0.0085	0.0015	0.23	U	1.3	0.23	0.0014	U	0.0082	0.0014	0.0011	U	0.0062	0.0011	0.074	U	0.42	0.074	0.0009	U	0.0052	0.0009
Vinyl chloride	0.2	0.027		0.00071	U	0.0021	0.00071	0.11	U	0.33	0.11	0.00068	U	0.002	0.00068	0.00052	U	0.0015	0.00052	0.036	U	0.11	0.036	0.00043	U	0.0013	0.00043
Xylenes, total	1,000	990		0.00062	U	0.0021	0.00062	1.7	J	0.33	0.097	0.032		0.002	0.00059	0.055		0.0015	0.00045	1.5		0.11	0.031	0.00038	U	0.0013	0.00038
Total Inorganics																											
Lead, total	450	--		-		-	-	-		-	-	-		-	-	-		-	-					-		-	-
General Chemistry																											
Solids, total	--	--		77.5		0.1	-	85.1		0.1	-	57.9		0.1	-	68.4		0.1	-					81.3		0.1	-

Table 2
Tank Containment Area 1 - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: Tank Containment Area Laboratory ID: Collection Date: Sample Depth: Sample Matrix:	SB-209 (3.5-4) 1 L2213931-10 3/17/2022 3.5-4 SOIL				SB-210 (4-4.5) 1 L2213931-11 3/17/2022 4-4.5 SOIL				SB-211 (3.5-4) 1 L2213931-12 3/17/2022 3.5-4 SOIL				SB-212 (4.5-5) 1 L2213931-13 3/17/2022 4.5-5 SOIL				SB-213 (4-4.5) 1 L2213931-14 3/17/2022 4-4.5 SOIL				SB-214 (4-4.5) 1 L2213931-15 3/17/2022 4-4.5 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																													
1,1,1-Trichloroethane	20	7.4		0.00032	U	0.00096	0.00032	0.00016	U	0.00047	0.00016	0.0002	U	0.00059	0.0002	0.00024	U	0.0007	0.00024	0.096	U	0.29	0.096	0.00018	U	0.00053	0.00018
1,1,2,2-Tetrachloroethane	0.43	0.13		0.00032	U	0.00096	0.00032	0.00015	U	0.00047	0.00015	0.0002	U	0.00059	0.0002	0.00023	U	0.0007	0.00023	0.096	U	0.29	0.096	0.00018	U	0.00053	0.00018
1,1,2-Trichloro-1,2,2-Trifluoroethane	10,000	10,000		0.0013	U	0.0077	0.0013	0.00065	U	0.0037	0.00065	0.00082	U	0.0048	0.00082	0.00098	U	0.0056	0.00098	0.4	U	2.3	0.4	0.00073	U	0.0042	0.00073
1,1,2-Trichloroethane	0.5	0.15		0.00051	U	0.0019	0.00051	0.00025	U	0.00093	0.00025	0.00032	U	0.0012	0.00032	0.00038	U	0.0014	0.00038	0.15	U	0.58	0.15	0.00028	U	0.001	0.00028
1,1-Dichloroethane	16	3.9		0.00028	U	0.0019	0.00028	0.00014	U	0.00093	0.00014	0.00017	U	0.0012	0.00017	0.0002	U	0.0014	0.0002	0.084	U	0.58	0.084	0.00015	U	0.001	0.00015
1,1-Dichloroethene	0.7	0.19		0.00046	U	0.0019	0.00046	0.00022	U	0.00093	0.00022	0.00028	U	0.0012	0.00028	0.00034	U	0.0014	0.00034	0.14	U	0.58	0.14	0.00025	U	0.001	0.00025
1,2,3-Trichlorobenzene	--	--		0.00062	U	0.0038	0.00062	0.0003	U	0.0019	0.0003	0.00038	U	0.0024	0.00038	0.00045	U	0.0028	0.00045	0.19	U	1.2	0.19	0.00034	U	0.0021	0.00034
1,2,4-Trichlorobenzene	27	27		0.00052	U	0.0038	0.00052	0.00025	U	0.0019	0.00025	0.00032	U	0.0024	0.00032	0.00038	U	0.0028	0.00038	0.16	U	1.2	0.16	0.00029	U	0.0021	0.00029
1,2,4-Trimethylbenzene	300	300		0.0022	J	0.0038	0.00064	0.00031	U	0.0019	0.00031	0.0004	U	0.0024	0.0004	0.0029		0.0028	0.00047	20		1.2	0.19	0.00046	J	0.0021	0.00035
1,2-Dibromo-3-chloropropane	0.02	0.0092		0.0019	U	0.0058	0.0019	0.00093	U	0.0028	0.00093	0.0012	U	0.0036	0.0012	0.0014	U	0.0042	0.0014	***0.58***	U	1.7	0.58	0.001	U	0.0032	0.001
1,2-Dibromoethane	0.005	0.0013		0.00056	U	0.00096	0.00056	0.00027	U	0.00047	0.00027	0.00035	U	0.00059	0.00035	0.00041	U	0.0007	0.00041	***0.17***	U	0.29	0.17	0.00031	U	0.00053	0.00031
1,2-Dichlorobenzene	60	59		0.00028	U	0.0038	0.00028	0.00013	U	0.0019	0.00013	0.00017	U	0.0024	0.00017	0.0002	U	0.0028	0.0002	0.083	U	1.2	0.083	0.00015	U	0.0021	0.00015
1,2-Dichloroethane	0.5	0.1		0.00054	J	0.0019	0.0005	0.00024	U	0.00093	0.00024	0.0003	U	0.0012	0.0003	0.00036	U	0.0014	0.00036	0.15	U	0.58	0.15	0.00027	U	0.001	0.00027
1,2-Dichloroethene, total	--	--		0.00026	U	0.0019	0.00026	0.00013	U	0.00093	0.00013	0.00016	U	0.0012	0.00016	0.00019	U	0.0014	0.00019	0.079	U	0.58	0.079	0.00014	U	0.001	0.00014
1,2-Dichloropropane	0.5	0.11		0.00024	U	0.0019	0.00024	0.00012	U	0.00093	0.00012	0.00015	U	0.0012	0.00015	0.00018	U	0.0014	0.00018	0.072	U	0.58	0.072	0.00013	U	0.001	0.00013
1,3,5-Trimethylbenzene	93	93		0.0085		0.0038	0.00037	0.00018	U	0.0019	0.00018	0.00023	U	0.0024	0.00023	0.0024	J	0.0028	0.00027	8.5		1.2	0.11	0.00021	J	0.0021	0.0002
1,3-Dichlorobenzene	61	NS		0.00028	U	0.0038	0.00028	0.00014	U	0.0019	0.00014	0.00018	U	0.0024	0.00018	0.00021	U	0.0028	0.00021	0.086	U	1.2	0.086	0.00016	U	0.0021	0.00016
1,3-Dichloropropene, total	2.7	0.48		0.0003	U	0.00096	0.0003	0.00015	U	0.00047	0.00015	0.00019	U	0.00059	0.00019	0.00022	U	0.0007	0.00022	0.091	U	0.29	0.091	0.00017	U	0.00053	0.00017
1,4-Dichlorobenzene	10	10		0.00033	U	0.0038	0.00033	0.00016	U	0.0019	0.00016	0.0002	U	0.0024	0.0002	0.00024	U	0.0028	0.00024	0.099	U	1.2	0.099	0.00018	U	0.0021	0.00018
1,4-Dioxane	2.7	9		0.068	U	0.15	0.068	0.033	U	0.075	0.033	0.042	U	0.095	0.042	0.049	U	0.11	0.049	20	U	46	20	0.037	U	0.084	0.037
2-Butanone	400	1,100		0.0043	U	0.019	0.0043	0.0021	U	0.0093	0.0021	0.0044	J	0.012	0.0026	0.0035	J	0.014	0.0031	1.3	U	5.8	1.3	0.0053	J	0.01	0.0023
2-Hexanone	26	6.4		0.0023	U	0.019	0.0023	0.0011	U	0.0093	0.0011	0.0014	U	0.012	0.0014	0.0017	U	0.014	0.0017	0.68	U	5.8	0.68	0.0012	U	0.01	0.0012
4-Methyl-2-pentanone	780	210		0.0025	U	0.019	0.0025	0.0012	U	0.0093	0.0012	0.0015	U	0.012	0.0015	0.0018	U	0.014	0.0018	0.74	U	5.8	0.74	0.0014	U	0.01	0.0014
Acetone	8,800	4,700		0.019	U	0.048	0.019	0.0093	U	0.023	0.0093	0.023	J	0.03	0.012	0.02	J	0.035	0.014	2.8	U	5.8	2.8	0.031		0.026	0.01
Benzene	0.5	0.13		0.0014		0.00096	0.00032	0.00015	U	0.00047	0.00015	0.0002	U	0.00059	0.0002	0.0011		0.0007	0.00023	1.8		0.29	0.096	0.0003	J	0.00053	0.00018
Bromochloromethane	9	1.6		0.0004	U	0.0038	0.0004	0.00019	U	0.0019	0.00019	0.00024	U	0.0024	0.00024	0.00029	U	0.0028	0.00029	0.12	U	1.2	0.12	0.00022	U	0.0021	0.00022
Bromodichloromethane	8	2.7		0.00021	U	0.00096	0.00021	0.0001	U	0.00047	0.0001	0.00013	U	0.00059	0.00013	0.00015	U	0.0007	0.00015	0.063	U	0.29	0.063	0.00012	U	0.00053	0.00012
Bromoform	8	3.5		0.00047	U	0.0077	0.00047	0.00023	U	0.0037	0.00023	0.00029	U	0.0048	0.00029	0.00035	U	0.0056	0.00035	0.14	U	2.3	0.14	0.00026	U	0.0042	0.00026
Bromomethane	1	0.54		0.0011	U	0.0038	0.0011	0.00054	U	0.0019	0.00054	0.00069	U	0.0024	0.00069	0.00082	U	0.0028	0.00082	0.34	U	1.2	0.34	0.00061	U	0.0021	0.00061
Carbon disulfide	620	530		0.0088	U	0.019	0.0088	0.0042	U	0.0093	0.0042	0.0054	U	0.012	0.0054	0.0064	U	0.014	0.0064	2.6	U	5.8	2.6	0.0048	U	0.01	0.0048
Carbon tetrachloride	0.5	0.26		0.00044	U	0.0019	0.00044	0.00021	U	0.00093	0.00021	0.00027	U	0.0012	0.00027	0.00032	U	0.0014	0.00032	0.13	U	0.58	0.13	0.00024	U	0.001	0.00024
Chlorobenzene	10	6.1		0.00024	U	0.00096	0.00024	0.00012	U	0.00047	0.00012	0.00015	U	0.00059	0.00015	0.00018	U	0.0007	0.00018	0.073	U	0.29	0.073	0.00013	U	0.00053	0.00013
Chloroethane	8,800	1,900		0.00087	U	0.0038	0.00087	0.00042	U	0.0019	0.00042	0.00054	U	0.0024	0.00054	0.00064	U	0.0028	0.00064	0.26	U	1.2	0.26	0.00048	U	0.0021	0.00048
Chloroform	8	2		0.00027	U	0.0029	0.00027	0.00013	U	0.0014	0.00013	0.00017	U	0.0018	0.00017	0.0002	U	0.0021	0.0002	0.081	U	0.87	0.081	0.00015	U	0.0016	0.00015
Chloromethane	3	0.38		0.0018	U	0.0077	0.0018	0.00087	U	0.0037	0.00087	0.0011	U	0.0048	0.0011	0.0013	U	0.0056	0.0013	0.54	U	2.3	0.54	0.00098	U	0.0042	0.00098
cis-1,2-Dichloroethene	7	--		0.00034	U	0.0019	0.00034	0.00016	U	0.00093	0.00016	0.00021	U	0.0012	0.00021	0.00025	U	0.0014	0.00025	0.1	U	0.58	0.1	0.00018	U	0.001	0.00018
cis-1,3-Dichloropropene	3.4	--		0.0003	U	0.00096	0.0003	0.00015	U	0.00047	0.00015	0.00019	U	0.00059	0.00019	0.00022	U	0.0007	0.00022	0.091	U	0.29	0.091	0.00017	U	0.00053	0.00017
Cyclohexane	6,900	6,900		0.0056	J	0.019	0.001	0.00051	U	0.0093	0.00051	0.0014	J	0.012	0.00065	0.00086	J	0.014	0.00077	0.33	J	5.8	0.31	0.00092	J	0.01	0.00057
Dibromochloromethane	8	2.5		0.00027	U	0.0019	0.00027	0.00013	U	0.00093	0.00013	0.00017	U	0.0012	0.00017	0.0002	U	0.0014	0.0002	0.081	U	0.58	0.081	0.00015	U	0.001	0.00015
Dichlorodifluoromethane	100	100		0.0018	U	0.019	0.0018	0.00085	U	0.0093	0.00085	0.0011	U	0.012	0.0011	0.0013	U	0.014	0.0013	0.53	U	5.8	0.53	0.00097	U	0.01	0.00097
Ethylbenzene	70	46		0.00048	J	0.0019	0.00027	0.00013	U	0.00093	0.00013	0.00017	U	0.0012	0.00017	0.00046	J	0.0014	0.0002	4.7		0.58	0.082	0.00015	U	0.001	0.00015
Isopropylbenzene	2,500	2,500		0.00022	J	0.0019	0.00021	0.0001	U	0.00093	0.0001	0.00013	U	0.0012	0.00013	0.00019	J	0.0014	0.00015	1.3		0.58	0.063	0.00012	U	0.001	0.00012
Methyl acetate	9,700	--		0.0018	U	0.0077	0.0018	0.00088	U	0.0037	0.00088	0.0011	U	0.0048	0.0011	0.0013	U	0.0056	0.0013	1.6	J	2.3	0.55	0.001	U	0.0042	0.001
Methyl cyclohexane	--	--		0.016		0.0077	0.0012	0.00056	U	0.0037	0.00056	0.0014	J	0.0048	0.00072	0.0017	J	0.0056	0.00085	0.39	J	2.3	0.35	0.00093	J	0.0042	0.00064
Methyl tert-butyl ether	2	1.4		0.00039	U	0.0038	0.00039	0.0006	J	0.0019	0.00019	0.00024	U	0.0024	0.00024	0.0014	J	0.0028	0.00028	0.12	U	1.2	0.12	0.00021	U	0.0021	0.00021
Methylene chloride	0.5	1.5		0.0044	U	0.0096	0.0044	0.0021	U	0.0047	0.0021	0.0027	U	0.0059	0.0027	0.0032	U	0.007	0.0032	1.3	U	2.9	1.3	0.0024	U	0.0053	0.0024
Naphthalene	25	25		0.0017	J	0.0077	0.0012	0.00061	U	0.0037	0.00061	0.0012	J	0.0048	0.00077	0.12		0.0056	0.00092	1700	E	2.3	0.38	0.052		0.0042	0.00069
o-Xylene	1,000	--		0.0012	J	0.0019	0.00056	0.00027	U	0.00093	0.00027	0.00034	U	0.0012	0.00034	0.0022		0.0014	0.00041	6.9		0.58	0.17	0.00031	U	0.001	0.00031
p/m-Xylene	1,000	--		0.0015	J	0.0038	0.0011	0.00052	U	0.0019	0.00052	0.00066	U	0.0024	0.00066	0.003		0.0028	0.00079	11		1.2	0.32	0.00059	U	0.0021	0.00059
Styrene	24	79		0.00038	U	0.0019	0.00038	0.00018	U	0.00093	0.00018	0.00023	U	0.0012	0.00023	0.00028	U	0.0014	0.00028	0.67		0.58	0.11	0.00021	U	0.001	0.00021
Tetrachloroethene	0.5	0.43		0.00038	U	0.00096	0.00038	0.00018	U	0.00047	0.00018	0.00023	U	0.00059	0.00023	0.00028	U	0.0007	0.00028	0.11	U	0.29	0.11	0.00021	U	0.00053	0.00021
Toluene	100	44		0.0025		0.0019	0.001	0.00051	U	0.00093	0.00051	0.00064	U	0.0012	0.00064	0.0023		0.0014	0.00076	4.6		0.58	0.31	0.00057	U	0.001	0.00057
trans-1,2-Dichloroethene	10	2.3		0.00026	U	0.0029	0.00026	0.00013	U	0.0014	0.00013	0.00016	U	0.0018	0.00016	0.00019	U	0.0021	0.00019	0.079	U	0.87	0.079	0.00014	U	0.0016	0.00014
trans-1,3-Dichloropropene	3.4	--		0.00053	U	0.0019	0.00053	0.00025	U	0.00093	0.00025	0.00032	U	0.0012	0.00032	0.00038	U	0.0014	0.00038	0.16	U	0.58	0.16	0.00029	U	0.001	0.00029
Trichloroethene	0.5	0.17		0.00026	U	0.00096	0.00026	0.00013	U	0.00047	0.00013	0.00016	U	0.00059	0.00016	0.00019	U	0.0007	0.00019	0.079	U	0.29	0.079	0.00014	U	0.00053	0.00014
Trichlorofluoromethane	200	87		0.0013	U	0.0077	0.0013	0.00065	U	0.0037	0.00065	0.00082	U	0.0048	0.00082	0.00098	U	0.0056	0.00098	0.4	U	2.3	0.4	0.00073	U	0.0042	0.00073
Vinyl chloride	0.2	0.027		0.00065	U	0.0019	0.00065	0.00031	U	0.00093	0.00031	0.0004	U	0.0012	0.0004	0.00047	U	0.0014	0.00047	0.19	U	0.58	0.19	0.00035	U	0.001	0.00035
Xylenes, total	1,000	990		0.0027	J	0.0019	0.00056	0.00027	U	0.00093	0.00027	0.00034	U	0.0012	0.00034	0.0052		0.0014	0.00041	18		0.58	0.17	0.00031	U	0.001	0.00031
Total Inorganics																													
Lead, total	450	--		-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-
General Chemistry																													
Solids, total	--	--		58		0.1	-	83		0.1	-	66.7		0.1	-	67.8		0.1	-	75.5		0.1	-	82.3		0.1	-

Table 2
Tank Containment Area 1 - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: Tank Containment Area Laboratory ID: Collection Date: Sample Depth: Sample Matrix:	SB-215 (4.5-5) 1 L2213931-16 3/17/2022 4.5-5 SOIL				SB-215 (4.5-5) 1 L2213931-16 3/17/2022 4.5-5 SOIL				SB-215 (4.5-5) 1 L2213931-16 R1 3/17/2022 4.5-5 SOIL				SB-216 (3.5-4) 1 L2213931-17 3/17/2022 3.5-4 SOIL				SB-216 (3.5-4) 1 L2213931-17 3/17/2022 3.5-4 SOIL				SB-302 (4.5-5) 1 L2310798-04 3/1/2023 4.5-5 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
1,1,1-Trichloroethane	20	7.4		0.00028	U	0.00084	0.00028	0.017	U	0.05	0.017	0.00027	U	0.0008	0.00027	0.00023	U	0.0007	0.00023	0.016	U	0.048	0.016	-	-	-	-
1,1,2,2-Tetrachloroethane	0.43	0.13		0.00028	U	0.00084	0.00028	0.016	U	0.05	0.016	0.00027	U	0.0008	0.00027	0.00023	U	0.0007	0.00023	0.016	U	0.048	0.016	-	-	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	10,000	10,000		0.0012	U	0.0067	0.0012	0.069	U	0.4	0.069	0.0011	U	0.0064	0.0011	0.00097	U	0.0056	0.00097	0.067	U	0.39	0.067	-	-	-	-
1,1,2-Trichloroethane	0.5	0.15		0.00045	U	0.0017	0.00045	0.027	U	0.1	0.027	0.00043	U	0.0016	0.00043	0.00037	U	0.0014	0.00037	0.026	U	0.096	0.026	-	-	-	-
1,1-Dichloroethane	16	3.9		0.00024	U	0.0017	0.00024	0.014	U	0.1	0.014	0.00023	U	0.0016	0.00023	0.0002	U	0.0014	0.0002	0.014	U	0.096	0.014	-	-	-	-
1,1-Dichloroethene	0.7	0.19		0.0004	U	0.0017	0.0004	0.024	U	0.1	0.024	0.00038	U	0.0016	0.00038	0.00033	U	0.0014	0.00033	0.023	U	0.096	0.023	-	-	-	-
1,2,3-Trichlorobenzene	--	--		0.00054	U	0.0034	0.00054	0.032	U	0.2	0.032	0.00052	U	0.0032	0.00052	0.00045	U	0.0028	0.00045	0.031	U	0.19	0.031	-	-	-	-
1,2,4-Trichlorobenzene	27	27		0.00046	U	0.0034	0.00046	0.027	U	0.2	0.027	0.00044	U	0.0032	0.00044	0.00038	U	0.0028	0.00038	0.026	U	0.19	0.026	-	-	-	-
1,2,4-Trimethylbenzene	300	300		0.48		0.0034	0.00056	3.3		0.2	0.033	0.46		0.0032	0.00054	0.2		0.0028	0.00047	1.8		0.19	0.032	-	-	-	-
1,2-Dibromo-3-chloropropane	0.02	0.0092		0.0017	U	0.005	0.0017	***0.1***	U	0.3	0.1	0.0016	U	0.0048	0.0016	0.0014	U	0.0042	0.0014	***0.096***	U	0.29	0.096	-	-	-	-
1,2-Dibromoethane	0.005	0.0013		0.00049	U	0.00084	0.00049	***0.029***	U	0.05	0.029	0.00047	U	0.0008	0.00047	0.00041	U	0.0007	0.00041	***0.028***	U	0.048	0.028	-	-	-	-
1,2-Dichlorobenzene	60	59		0.00024	U	0.0034	0.00024	0.014	U	0.2	0.014	0.00023	U	0.0032	0.00023	0.0002	U	0.0028	0.0002	0.014	U	0.19	0.014	-	-	-	-
1,2-Dichloroethane	0.5	0.1		0.00044	J	0.0017	0.00043	0.026	U	0.1	0.026	0.00043	J	0.0016	0.00041	0.00036	U	0.0014	0.00036	0.057	J	0.096	0.025	-	-	-	-
1,2-Dichloroethene, total	--	--		0.00023	U	0.0017	0.00023	0.014	U	0.1	0.014	0.00022	U	0.0016	0.00022	0.00019	U	0.0014	0.00019	0.013	U	0.096	0.013	-	-	-	-
1,2-Dichloropropane	0.5	0.11		0.00021	U	0.0017	0.00021	0.012	U	0.1	0.012	0.0002	U	0.0016	0.0002	0.00017	U	0.0014	0.00017	0.012	U	0.096	0.012	-	-	-	-
1,3,5-Trimethylbenzene	93	93		0.53	E	0.0034	0.00032	3.6		0.2	0.019	0.51	E	0.0032	0.00031	0.43	E	0.0028	0.00027	3.6		0.19	0.019	-	-	-	-
1,3-Dichlorobenzene	61	NS		0.00025	U	0.0034	0.00025	0.015	U	0.2	0.015	0.00024	U	0.0032	0.00024	0.00021	U	0.0028	0.00021	0.014	U	0.19	0.014	-	-	-	-
1,3-Dichloropropene, total	2.7	0.48		0.00026	U	0.00084	0.00026	0.016	U	0.05	0.016	0.00025	U	0.0008	0.00025	0.00022	U	0.0007	0.00022	0.015	U	0.048	0.015	-	-	-	-
1,4-Dichlorobenzene	10	10		0.00029	U	0.0034	0.00029	0.017	U	0.2	0.017	0.00028	U	0.0032	0.00028	0.00024	U	0.0028	0.00024	0.016	U	0.19	0.016	-	-	-	-
1,4-Dioxane	2.7	9		0.059	U	0.13	0.059	3.5	U	8	3.5	0.056	U	0.13	0.056	0.049	U	0.11	0.049	3.4	U	7.7	3.4	-	-	-	-
2-Butanone	400	1,100		0.0037	U	0.017	0.0037	0.22	U	1	0.22	0.0036	U	0.016	0.0036	0.0031	U	0.014	0.0031	0.21	U	0.96	0.21	-	-	-	-
2-Hexanone	26	6.4		0.002	U	0.017	0.002	0.12	U	1	0.12	0.0019	U	0.016	0.0019	0.0016	U	0.014	0.0016	0.11	U	0.96	0.11	-	-	-	-
4-Methyl-2-pentanone	780	210		0.0021	U	0.017	0.0021	0.13	U	1	0.13	0.002	U	0.016	0.002	0.0018	U	0.014	0.0018	0.12	U	0.96	0.12	-	-	-	-
Acetone	8,800	4,700		0.018	J	0.042	0.017	0.48	U	1	0.48	0.02	J	0.04	0.016	0.014	U	0.035	0.014	0.46	U	0.96	0.46	-	-	-	-
Benzene	0.5	0.13		0.015		0.00084	0.00028	0.12		0.05	0.016	0.014		0.0008	0.00027	0.0054		0.0007	0.00023	0.27		0.048	0.016	0.00018	U	0.00055	0.00018
Bromochloromethane	9	1.6		0.00034	U	0.0034	0.00034	0.02	U	0.2	0.02	0.00033	U	0.0032	0.00033	0.00029	U	0.0028	0.00029	0.02	U	0.19	0.02	-	-	-	-
Bromodichloromethane	8	2.7		0.00018	U	0.00084	0.00018	0.011	U	0.05	0.011	0.00018	U	0.0008	0.00018	0.00015	U	0.0007	0.00015	0.01	U	0.048	0.01	-	-	-	-
Bromoform	8	3.5		0.00041	U	0.0067	0.00041	0.024	U	0.4	0.024	0.0004	U	0.0064	0.0004	0.00034	U	0.0056	0.00034	0.024	U	0.39	0.024	-	-	-	-
Bromomethane	1	0.54		0.00098	U	0.0034	0.00098	0.058	U	0.2	0.058	0.00093	U	0.0032	0.00093	0.00081	U	0.0028	0.00081	0.056	U	0.19	0.056	-	-	-	-
Carbon disulfide	620	530		0.0076	U	0.017	0.0076	0.45	U	1	0.45	0.01	J	0.016	0.0073	0.0064	U	0.014	0.0064	0.44	U	0.96	0.44	-	-	-	-
Carbon tetrachloride	0.5	0.26		0.00039	U	0.0017	0.00039	0.023	U	0.1	0.023	0.00037	U	0.0016	0.00037	0.00032	U	0.0014	0.00032	0.022	U	0.096	0.022	-	-	-	-
Chlorobenzene	10	6.1		0.00021	U	0.00084	0.00021	0.013	U	0.05	0.013	0.0002	U	0.0008	0.0002	0.00018	U	0.0007	0.00018	0.012	U	0.048	0.012	-	-	-	-
Chloroethane	8,800	1,900		0.00076	U	0.0034	0.00076	0.045	U	0.2	0.045	0.00073	U	0.0032	0.00073	0.00063	U	0.0028	0.00063	0.044	U	0.19	0.044	-	-	-	-
Chloroform	8	2		0.00024	U	0.0025	0.00024	0.014	U	0.15	0.014	0.00022	U	0.0024	0.00022	0.0002	U	0.0021	0.0002	0.014	U	0.14	0.014	-	-	-	-
Chloromethane	3	0.38		0.0016	U	0.0067	0.0016	0.093	U	0.4	0.093	0.0015	U	0.0064	0.0015	0.0013	U	0.0056	0.0013	0.09	U	0.39	0.09	-	-	-	-
cis-1,2-Dichloroethene	7	--		0.00029	U	0.0017	0.00029	0.017	U	0.1	0.017	0.00028	U	0.0016	0.00028	0.00024	U	0.0014	0.00024	0.017	U	0.096	0.017	-	-	-	-
cis-1,3-Dichloropropene	3.4	--		0.00026	U	0.00084	0.00026	0.016	U	0.05	0.016	0.00025	U	0.0008	0.00025	0.00022	U	0.0007	0.00022	0.015	U	0.048	0.015	-	-	-	-
Cyclohexane	6,900	6,900		0.047		0.017	0.00091	0.48	J	1	0.054	0.052		0.016	0.00088	0.077		0.014	0.00076	0.56	J	0.96	0.052	-	-	-	-
Dibromochloromethane	8	2.5		0.00024	U	0.0017	0.00024	0.014	U	0.1	0.014	0.00022	U	0.0016	0.00022	0.0002	U	0.0014	0.0002	0.014	U	0.096	0.014	-	-	-	-
Dichlorodifluoromethane	100	100		0.0015	U	0.017	0.0015	0.091	U	1	0.091	0.0015	U	0.016	0.0015	0.0013	U	0.014	0.0013	0.088	U	0.96	0.088	-	-	-	-
Ethylbenzene	70	46		0.039		0.0017	0.00024	0.31		0.1	0.014	0.038		0.0016	0.00023	0.0058		0.0014	0.0002	0.21		0.096	0.014	-	-	-	-
Isopropylbenzene	2,500	2,500		0.02		0.0017	0.00018	0.14		0.1	0.011	0.024		0.0016	0.00018	0.0044		0.0014	0.00015	0.05	J	0.096	0.01	-	-	-	-
Methyl acetate	9,700	--		0.0016	U	0.0067	0.0016	0.32	J	0.4	0.095	0.0015	U	0.0064	0.0015	0.0013	U	0.0056	0.0013	0.092	U	0.39	0.092	-	-	-	-
Methyl cyclohexane	--	--		0.034		0.0067	0.001	0.85		0.4	0.06	0.042		0.0064	0.00097	0.052		0.0056	0.00084	0.58		0.39	0.058	-	-	-	-
Methyl tert-butyl ether	2	1.4		0.00043	J	0.0034	0.00034	0.02	U	0.2	0.02	0.00065	J	0.0032	0.00032	0.00028	U	0.0028	0.00028	0.019	U	0.19	0.019	-	-	-	-
Methylene chloride	0.5	1.5		0.0038	U	0.0084	0.0038	0.23	U	0.5	0.23	0.0037	U	0.008	0.0037	0.0032	U	0.007	0.0032	0.22	U	0.48	0.22	-	-	-	-
Naphthalene	25	25		1.9	E	0.0067	0.0011	38	E	0.4	0.065	2	E	0.0064	0.001	0.024		0.0056	0.00091	0.94		0.39	0.063	0.00072	U	0.0044	0.00072
o-Xylene	1,000	--		0.3		0.0017	0.00049	1.9		0.1	0.029	0.26		0.0016	0.00047	0.25		0.0014	0.00041	2.3		0.096	0.028	-	-	-	-
p/m-Xylene	1,000	--		0.3		0.0034	0.00094	2		0.2	0.056	0.27		0.0032	0.0009	0.13		0.0028	0.00078	2.4		0.19	0.054	-	-	-	-
Styrene	24	79		0.00092	J	0.0017	0.00033	0.024	J	0.1	0.02	0.0011	J	0.0016	0.00032	0.00027	U	0.0014	0.00027	0.022	J	0.096	0.019	-	-	-	-
Tetrachloroethene	0.5	0.43		0.00033	U	0.00084	0.00033	0.02	U	0.05	0.02	0.00032	U	0.0008	0.00032	0.00027	U	0.0007	0.00027	0.019	U	0.048	0.019	-	-	-	-
Toluene	100	44		0.19		0.0017	0.00091	0.98		0.1	0.054	0.16		0.0016	0.00087	0.024		0.0014	0.00076	1.2		0.096	0.052	-	-	-	-
trans-1,2-Dichloroethene	10	2.3		0.00023	U	0.0025	0.00023	0.014	U	0.15	0.014	0.00022	U	0.0024	0.00022	0.00019	U	0.0021	0.00019	0.013	U	0.14	0.013	-	-	-	-
trans-1,3-Dichloropropene	3.4	--		0.00046	U	0.0017	0.00046	0.027	U	0.1	0.027	0.00044	U	0.0016	0.00044	0.00038	U	0.0014	0.00038	0.026	U	0.096	0.026	-	-	-	-
Trichloroethene	0.5	0.17		0.00023	U	0.00084	0.00023	0.014	U	0.05	0.014	0.00022	U	0.0008	0.00022	0.00019	U	0.0007	0.00019	0.013	U	0.048	0.013	-	-	-	-
Trichlorofluoromethane	200	87		0.0012	U	0.0067	0.0012	0.069	U	0.4	0.069	0.0011	U	0.0064	0.0011	0.00097	U	0.0056	0.00097	0.067	U	0.39	0.067	-	-	-	-
Vinyl chloride	0.2	0.027		0.00056	U	0.0017	0.00056	0.033	U	0.1	0.033	0.00054	U	0.0016	0.00054	0.00047	U	0.0014	0.00047	0.032	U	0.096	0.032	-	-	-	-
Xylenes, total	1,000	990		0.6		0.0017	0.00049	3.9		0.1	0.029	0.53		0.0016	0.00047	0.38		0.0014	0.00041	4.7		0.096	0.028	-	-	-	-
Total Inorganics																											
Lead, total	450	--		-		-	-					-		-	-	-		-	-					-		-	-
General Chemistry																											
Solids, total	--	--		72.1		0.1	-					-		-	-	68.3		0.1	-					88.8		0.1	-

Table 2
Tank Containment Area 1 - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: Tank Containment Area Laboratory ID: Collection Date: Sample Depth: Sample Matrix:	SB-303 (4-4.5) 1 L2310798-05 3/1/2023 4-4.5 SOIL				SB-307 (5.5-6) 1 L2314083-10 3/17/2023 5.5-6 SOIL				SB-308 (5.5-6) 1 L2314083-11 3/17/2023 5.5-6 SOIL				SB-309 (4.5-5) 1 L2314083-12 3/17/2023 4.5-5 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																			
1,1,1-Trichloroethane	20	7.4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.43	0.13		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	10,000	10,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	0.5	0.15		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	16	3.9		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	0.7	0.19		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	--	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	27	27		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	300	300		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	0.02	0.0092		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	0.005	0.0013		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	60	59		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.5	0.1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene, total	--	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	0.5	0.11		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	93	93		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	61	NS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene, total	2.7	0.48		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	10	10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	2.7	9		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	400	1,100		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	26	6.4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	780	210		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	8,800	4,700		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	0.5	0.13		-		-	-	-		-	-	-		-	-	-		-	-
Bromochloromethane	9	1.6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	8	2.7		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	8	3.5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	1	0.54		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	620	530		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	0.5	0.26		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	10	6.1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	8,800	1,900		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	8	2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	3	0.38		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	7	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	3.4	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	6,900	6,900		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	8	2.5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	100	100		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	70	46		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	2,500	2,500		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	9,700	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	--	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	2	1.4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	0.5	1.5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	25	25		0.00069	U	0.0043	0.00069	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	1,000	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p/m-Xylene	1,000	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	24	79		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	0.5	0.43		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	100	44		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	10	2.3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	3.4	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	0.5	0.17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	200	87		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	0.2	0.027		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, total	1,000	990		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Inorganics																			
Lead, total	450	--		-		-	-	7.56		2.21	0.119	-		-	-	87.4		2.16	0.116
General Chemistry																			
Solids, total	--	--		83.8		0.1	-	87.2		0.1	-	60.6		0.1	-	89.1		0.1	-

Table 2
Tank Containment Area 1 - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Notes:
1. Samples were collected by Arcadis U.S., Inc. on behalf of Alliance 51st Street LLC.
2. Concentrations are reported in milligrams per kilogram.
3. Shaded results indicate detected concentrations in exceedance of the Representative Pennsylvania Soil MSCs.
4. Underlined results indicate detected concentrations in exceedance of the Pennsylvania Non-Residential Vapor Intrusion screening values.
5. ***Bold and italicized*** values indicate a non-detected result with the MDL greater than the MSC.

Acronyms and Abbreviations:
' = foot/feet
- = Data not available.
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
Conc = concentration
E = concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument
ID = identification
J = the compound was detected; however, the concentration is below the laboratory method detection limit so the concentration is estimated
MDL = method detection limit
MSC = Medium Specific Concentration
Q = qualifier
RL = reporting limit
U = compound was undetected at the listed laboratory method detection limit
USEPA = United States Environmental Protection Agency

Table 2
Tank Containment Area 1 - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Nonresidential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: / Tank Containment Area / Laboratory ID: / Collection Date: / Sample Depth: / Sample Matrix:	SB-103 (4.5-5) 1 L2158500-03 10/25/2021 4.5-5 SOIL				SB-105 (4.5-5) 1 L2158500-05 10/25/2021 4.5-5 SOIL				SB-308 (5.5-6) 1 L2314083-11 3/17/2023 5.5-6 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Semivolatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene	13	--		0.13	U	1.3	0.13	0.16	U	1.5	0.16	-	-	-	-
1,4-Dioxane	2.7	9		0.059	U	0.19	0.059	0.068	U	0.22	0.068	-	-	-	-
2,3,4,6-Tetrachlorophenol	4,500	--		0.26	U	1.3	0.26	0.3	U	1.5	0.3	-	-	-	-
2,4,5-Trichlorophenol	5,900	--		0.25	U	1.3	0.25	0.29	U	1.5	0.29	-	-	-	-
2,4,6-Trichlorophenol	28	--		0.24	U	0.77	0.24	0.28	U	0.9	0.28	-	-	-	-
2,4-Dichlorophenol	2	--		0.21	U	1.2	0.21	0.24	U	1.3	0.24	-	-	-	-
2,4-Dimethylphenol	190	--		0.42	U	1.3	0.42	0.49	U	1.5	0.49	-	-	-	-
2,4-Dinitrophenol	19	--		0.6	U	6.2	0.6	0.7	U	7.2	0.7	-	-	-	-
2,4-Dinitrotoluene	0.9	--		0.26	U	1.3	0.26	0.3	U	1.5	0.3	-	-	-	-
2,6-Dinitrotoluene	0.18	--		0.22	U	1.3	0.22	0.26	U	1.5	0.26	-	-	-	-
2-Chloronaphthalene	17,000	--		0.13	U	1.3	0.13	0.15	U	1.5	0.15	-	-	-	-
2-Chlorophenol	4.4	--		0.15	U	1.3	0.15	0.18	U	1.5	0.18	-	-	-	-
2-Methylnaphthalene	100	100		23		1.5	0.16	19		1.8	0.18	-	-	-	-
2-Methylphenol	490	--		0.2	U	1.3	0.2	0.23	U	1.5	0.23	-	-	-	-
2-Nitroaniline	0.044	17		***0.25***	U	1.3	0.25	***0.29***	U	1.5	0.29	-	-	-	-
2-Nitrophenol	78	--		0.48	U	2.8	0.48	0.56	U	3.2	0.56	-	-	-	-
3,3'-Dichlorobenzidine	33	--		0.34	U	1.3	0.34	0.4	U	1.5	0.4	-	-	-	-
3-Methylphenol/4-Methylphenol	49	--		0.2	U	1.8	0.2	0.23	U	2.2	0.23	-	-	-	-
3-Nitroaniline	--	--		0.24	U	1.3	0.24	0.28	U	1.5	0.28	-	-	-	-
4,6-Dinitro-o-cresol	--	--		0.62	U	3.3	0.62	0.72	U	3.9	0.72	-	-	-	-
4-Bromophenyl phenyl ether	--	--		0.2	U	1.3	0.2	0.23	U	1.5	0.23	-	-	-	-
4-Chloroaniline	1.8	--		0.23	U	1.3	0.23	0.27	U	1.5	0.27	-	-	-	-
4-Chlorophenyl phenyl ether	--	--		0.14	U	1.3	0.14	0.16	U	1.5	0.16	-	-	-	-
4-Nitroaniline	14	--		0.53	U	1.3	0.53	0.62	U	1.5	0.62	-	-	-	-
4-Nitrophenol	6	--		0.52	U	1.8	0.52	0.61	U	2.1	0.61	-	-	-	-
Acenaphthene	4,700	--		3.1		1	0.13	3.1		1.2	0.16	-	-	-	-
Acenaphthylene	6,600	--		0.2	U	1	0.2	0.23	U	1.2	0.23	-	-	-	-
Acetophenone	970	--		0.16	U	1.3	0.16	0.18	U	1.5	0.18	-	-	-	-
Anthracene	350	--		1.1		0.77	0.25	0.52	J	0.9	0.29	-	-	-	-
Atrazine	0.3	--		***0.45***	U	1	0.45	***0.52***	U	1.2	0.52	-	-	-	-
Benzaldehyde	--	--		0.35	U	1.7	0.35	0.4	U	2	0.4	-	-	-	-
Benzo(a)anthracene	130	--		0.62	J	0.77	0.14	0.18	J	0.9	0.17	-	-	-	-
Benzo(a)pyrene	46	--		0.36	J	1	0.31	0.36	U	1.2	0.36	-	-	-	-

Table 2
Tank Containment Area 1 - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Nonresidential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: Tank Containment Area Laboratory ID: Collection Date: Sample Depth: Sample Matrix:	SB-103 (4.5-5) 1 L2158500-03 10/25/2021 4.5-5 SOIL				SB-105 (4.5-5) 1 L2158500-05 10/25/2021 4.5-5 SOIL				SB-308 (5.5-6) 1 L2314083-11 3/17/2023 5.5-6 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Benzo(b)fluoranthene	76	--		0.47	J	0.77	0.22	0.25	U	0.9	0.25	-	-	-	-
Benzo(ghi)perylene	180	--		0.2	J	1	0.15	0.18	U	1.2	0.18	-	-	-	-
Benzo(k)fluoranthene	76	--		0.2	J	0.77	0.2	0.24	U	0.9	0.24	-	-	-	-
Biphenyl	1.5	--		2.8	J	2.9	0.3	0.82	J	3.4	0.35	-	-	-	-
Bis(2-chloroethoxy)methane	29	--		0.13	U	1.4	0.13	0.15	U	1.6	0.15	-	-	-	-
Bis(2-chloroisopropyl)ether	30	8		0.22	U	1.5	0.22	0.26	U	1.8	0.26	-	-	-	-
Bis(2-ethylhexyl)phthalate	130	--		0.44	U	1.3	0.44	0.52	U	1.5	0.52	-	-	-	-
Butyl benzyl phthalate	10,000	--		0.32	U	1.3	0.32	0.38	U	1.5	0.38	-	-	-	-
Caprolactam	--	--		0.39	U	1.3	0.39	0.46	U	1.5	0.46	-	-	-	-
Carbazole	89	--		0.12	U	1.3	0.12	0.14	U	1.5	0.14	-	-	-	-
Chrysene	230	--		0.53	J	0.77	0.13	0.16	U	0.9	0.16	-	-	-	-
Di-n-butylphthalate	4,000	--		0.24	U	1.3	0.24	0.28	U	1.5	0.28	-	-	-	-
Di-n-octylphthalate	10,000	--		0.44	U	1.3	0.44	0.51	U	1.5	0.51	-	-	-	-
Dibenzo(a,h)anthracene	22	--		0.15	U	0.77	0.15	0.17	U	0.9	0.17	-	-	-	-
Dibenzofuran	250	--		1.7		1.3	0.12	1.4	J	1.5	0.14	-	-	-	-
Diethyl phthalate	7,800	--		0.12	U	1.3	0.12	0.14	U	1.5	0.14	-	-	-	-
Dimethyl phthalate	--	--		0.27	U	1.3	0.27	0.31	U	1.5	0.31	-	-	-	-
Fluoranthene	3,200	--		2.6		0.77	0.15	0.71	J	0.9	0.17	-	-	-	-
Fluorene	3,800	--		2.8		1.3	0.12	1.6		1.5	0.14	-	-	-	-
Hexachlorobenzene	0.96	--		0.14	U	0.77	0.14	0.17	U	0.9	0.17	-	-	-	-
Hexachlorobutadiene	42	--		0.19	U	1.3	0.19	0.22	U	1.5	0.22	-	-	-	-
Hexachlorocyclopentadiene	91	--		1.2	U	3.7	1.2	1.4	U	4.3	1.4	-	-	-	-
Hexachloroethane	0.56	0.56		0.21	U	1	0.21	0.24	U	1.2	0.24	-	-	-	-
Indeno(1,2,3-cd)pyrene	76	--		0.22	J	1	0.18	0.21	U	1.2	0.21	-	-	-	-
Isophorone	10	--		0.17	U	1.2	0.17	0.19	U	1.3	0.19	-	-	-	-
Naphthalene	25	25		13		1.3	0.16	7.5		1.5	0.18	-	-	-	-
NDPA/DPA	15	--		0.15	U	1	0.15	0.17	U	1.2	0.17	-	-	-	-
Nitrobenzene	0.63	1.2		0.19	U	1.2	0.19	0.22	U	1.3	0.22	-	-	-	-
p-Chloro-m-cresol	2,000	--		0.19	U	1.3	0.19	0.22	U	1.5	0.22	-	-	-	-
Pentachlorophenol	5	--		0.28	U	1	0.28	0.33	U	1.2	0.33	-	-	-	-
Phenanthrene	10,000	--		8.4		0.77	0.16	3.1		0.9	0.18	-	-	-	-
Phenol	200	7,900		0.19	U	1.3	0.19	0.23	U	1.5	0.23	-	-	-	-
Pyrene	2,200	--		2.2		0.77	0.13	0.58	J	0.9	0.15	-	-	-	-

Table 2
Tank Containment Area 1 - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Nonresidential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID: / Tank Containment Area / Laboratory ID: / Collection Date: / Sample Depth: / Sample Matrix:	SB-103 (4.5-5) / 1 / L2158500-03 / 10/25/2021 / 4.5-5 / SOIL				SB-105 (4.5-5) / 1 / L2158500-05 / 10/25/2021 / 4.5-5 / SOIL				SB-308 (5.5-6) / 1 / L2314083-11 / 3/17/2023 / 5.5-6 / SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Semivolatile Organic Compounds- SIM															
Bis(2-chloroethyl)ether	0.076	0.14		1.2		0.26	0.072	0.017	U	0.06	0.017	0.015	U	0.055	0.015
n-Nitrosodi-n-propylamine	0.013	--		0.067	U	0.26	0.067	0.016	U	0.06	0.016	-		-	-
General Chemistry															
Solids, total	--	--		63.1		0.1	-	55		0.1	-	60.6		0.1	-

Notes:
1. Samples were collected by Arcadis U.S., Inc. on behalf of Alliance 51st Street LLC.
2. Concentrations are reported in milligrams per kilogram.
3. Shaded results indicate detected concentrations in exceedance of the Representative Pennsylvania Soil MSCs.
4. Underlined results indicate detected concentrations in exceedance of the Pennsylvania Non-Residential Vapor Intrusion screening values.
5. ***Bold and italicized*** values indicate a non-detected result with the MDL greater than the MSC.

Acronyms and Abbreviations:
- = data not available
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
Conc = concentration
ID = identification
GC/MS = gas chromatography/mass spectrometry
MDL = method detection limit
MSC = Medium Specific Concentration
NDPA/DPA = n-nitrosodipropylamine/diphenylamine
Q = qualifier
RL = reporting limit
SIM = selected ion monitoring

Laboratory Qualifiers:
J = The compound was detected; however, the concentration is below the laboratory reporting limit, so the concentration is estimated.
U = Compound was undetected at the listed laboratory method detection limit.

Table 3
Tank Containment Area 2 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID Area Laboratory ID Collection Date Sample Depth	649-P1 2 410-51060-9 8/11/2021 3.0				649-P2 2 410-51060-10 8/12/2021 3.0				649-P3 2 410-51060-8 8/11/2021 3.0				649-P4 2 410-51060-11 8/12/2021 3.0				649-P5 2 410-51318-5 8/13/2021 3.0				649-Center 2 410-55731-2 9/16/2021 5.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.00082	U	0.01	0.00082	0.00064		0.008	0.00064	0.00066	U	0.0083	0.00066	0.00061	U	0.0076	0.00061	0.037	U	0.46	0.037	0.043	U	0.54	0.043
1,2-Dichloroethane	0.5	3.9		0.00141	J	0.01	0.00120	0.00151	J	0.008	0.00097	0.00099	U	0.0083	0.00099	0.00231	J	0.0076	0.00091	0.055	U	0.46	0.055	0.064	U	0.54	0.064
1,3,5-Trimethylbenzene	93	93		0.001	U	0.01	0.001	0.0008		0.008	0.0008	0.00083	U	0.0083	0.00083	0.00111	J	0.0076	0.00076	0.046	U	0.46	0.046	0.15	U	0.54	0.15
Toluene	100	44		0.00821	J	0.01	0.00	0.00311	J	0.008	0.00	0.00099	U	0.0083	0.00099	0.019		0.0076	0.00	0.055	U	0.46	0.055	0.064	U	0.54	0.064
Xylenes, total	1,000	990		0.00961	J	0.02	0.003	0.002		0.016	0.002	0.0023	U	0.017	0.0023	0.0111	J	0.015	0.002	0.13	U	0.91	0.13	0.15	U	1.1	0.15
Methyl tert-butyl ether	2	1.4		0.001	U	0.01	0.001	0.0008		0.008	0.0008	0.00083	U	0.0083	0.00083	0.001	U	0.0076	0.001	0.046	U	0.46	0.046	0.054	U	0.54	0.054
Benzene	0.5	0.13		0.00751	J	0.01	0.001	0.00301	J	0.008	0.0008	0.00083	U	0.0083	0.00083	0.013		0.0076	0.001	0.046	U	0.46	0.046	0.054	U	0.54	0.054
Naphthalene	25	25		0.00410	U	0.01	0.00410	0.00320		0.008	0.00320	0.0033	U	0.0083	0.0033	0.00300	U	0.0076	0.00300	0.18	U	0.46	0.18	0.21	U	0.54	0.21
1,2,4-Trimethylbenzene	300	300		0.00111	J	0.01	0.001	0.0008		0.008	0.0008	0.00083	U	0.0083	0.00083	0.00181	J	0.0076	0.001	0.046	U	0.46	0.046	0.054	U	0.54	0.054
Isopropylbenzene	2,500	2,500		0.00082	U	0.01	0.00082	0.00064		0.008	0.00064	0.00066	U	0.0083	0.00066	0.0006	U	0.0076	0.0006	0.037	U	0.46	0.037	0.043	U	0.54	0.043
1,2,-Dibromoethane	0.005	0.0013		0.00082	U	0.01	0.00082	0.00064		0.008	0.00064	0.00066	U	0.0083	0.00066	0.0006	U	0.0076	0.0006	***0.037***	U	0.46	0.037	***0.043***	U	0.54	0.043
Semivolatile Organic Compounds																											
Anthracene	350	--		0.0052	U	0.026	0.0052	0.042		0.021	0.0042	0.086		0.022	0.0045	0.0111	J	0.022	0.0044	0.0042	U	0.021	0.0042	0.037		0.022	0.0043
Benzo(a)anthracene	130	--		0.0201	J	0.026	0.0052	0.83		0.021	0.0042	0.24		0.022	0.0045	0.024		0.022	0.0044	0.0101	J	0.021	0.0042	0.092		0.022	0.0043
Benzo(a)pyrene	46	--		0.0251	J	0.026	0.0052	0.92		0.021	0.0042	0.19		0.022	0.0045	0.028		0.022	0.0044	0.0111	J	0.021	0.0042	0.083		0.022	0.0043
Benzo(b)fluoranthene	76	--		0.035		0.026	0.0052	1.1		0.021	0.0042	0.22		0.022	0.0045	0.05		0.022	0.0044	0.0201	J	0.021	0.0042	0.098		0.022	0.0043
Benzo(g,h,i)perylene	180	--		0.032		0.026	0.0052	0.6		0.021	0.0042	0.13		0.022	0.0045	0.031		0.022	0.0044	0.0151	J	0.021	0.0042	0.048		0.022	0.0043
Chrysene	230	--		0.027		0.026	0.0052	0.78		0.021	0.0042	0.23		0.022	0.0045	0.04		0.022	0.0044	0.0151	J	0.021	0.0042	0.098		0.022	0.0043
Fluorene	3,800	--		0.0052	U	0.026	0.0052	0.00651	J	0.021	0.0042	0.024		0.022	0.0045	0.0044	U	0.022	0.0044	0.0042	U	0.021	0.0042	0.0151	J	0.022	0.0043
Phenanthrene	10,000	--		0.031		0.026	0.006	0.075		0.021	0.005	0.36		0.022	0.0054	0.041		0.022	0.005	0.0171	J	0.021	0.005	0.15		0.022	0.0052
Pyrene	2,200	--		0.031		0.026	0.0052	1.3		0.021	0.0042	0.46		0.022	0.0045	0.042		0.022	0.0044	0.0161	J	0.021	0.0042	0.18		0.022	0.0043
Inorganics																											
Lead	450	--		83		2.1	0.82	46		1.5	0.58	230		1.6	0.63	25		1.8	0.73	270		1.5	0.59	230		1.70	0.69

Table 3
Tank Containment Area 2 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	1043-P1 / 2 / 410-50281-30 / 8/5/2021 / 3.0				1043-P2 / 2 / 410-50151-9 / 8/5/2021 / 3.0				1043-P3 / DUP-2 / 2 / 410-50151-6 / 8/5/2021 / 3.0				1043-P3 / DUP-2 / 2 / 410-50151-7 / 8/5/2021				1043-P4 / 2 / 410-50281-29 / 8/5/2021 / 3.0				1043-P5 / 2 / 410-50281-28 / 8/5/2021 / 3.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.00066	U	0.0082	0.00066	0.00058	U	0.0073	0.00058	0.00062	U	0.0078	0.00062	0.00062	U	0.0077	0.00062	0.0007	U	0.0087	0.0007	0.00076	U	0.0095	0.00076
1,2-Dichloroethane	0.5	3.9		0.00098	U	0.0082	0.00098	0.00088	U	0.0073	0.00088	0.00093	U	0.0078	0.00093	0.00093	U	0.0077	0.00093	0.001	U	0.0087	0.001	0.0011	U	0.0095	0.0011
1,3,5-Trimethylbenzene	93	93		0.00082	U	0.0082	0.00082	0.00073	U	0.0073	0.00073	0.00078	U	0.0078	0.00078	0.00077	U	0.0077	0.00077	0.00087	U	0.0087	0.00087	0.00095	U	0.0095	0.00095
Toluene	100	44		0.00098	U	0.0082	0.00098	0.000941	J	0.0073	0.00	0.00093	U	0.0078	0.00093	0.00093	U	0.0077	0.00093	0.001	U	0.0087	0.001	0.0011	U	0.0095	0.0011
Xylenes, total	1,000	990		0.002	U	0.016	0.002	0.002	U	0.015	0.002	0.0022	U	0.016	0.0022	0.0022	U	0.015	0.0022	0.0024	U	0.017	0.0024	0.0027	U	0.019	0.0027
Methyl tert-butyl ether	2	1.4		0.001	U	0.0082	0.001	0.00073	U	0.0073	0.00073	0.00078	U	0.0078	0.00078	0.00077	U	0.0077	0.00077	0.00087	U	0.0087	0.00087	0.00095	U	0.0095	0.00095
Benzene	0.5	0.13		0.00161	J	0.0082	0.00082	0.00191	J	0.0073	0.00073	0.00078	U	0.0078	0.00078	0.00077	U	0.0077	0.00077	0.00261	J	0.0087	0.00087	0.00131	J	0.0095	0.00095
Naphthalene	25	25		0.00330	U	0.0082	0.00330	0.0029	U	0.0073	0.0029	0.0031	U	0.0078	0.0031	0.0031	U	0.0077	0.0031	0.0035	U	0.0087	0.0035	0.0038	U	0.0095	0.0038
1,2,4-Trimethylbenzene	300	300		0.001	U	0.0082	0.001	0.00073	U	0.0073	0.00073	0.00078	U	0.0078	0.00078	0.00077	U	0.0077	0.001	0.00087	U	0.0087	0.00087	0.00095	U	0.0095	0.00095
Isopropylbenzene	2,500	2,500		0.00066	U	0.0082	0.00066	0.00058	U	0.0073	0.00058	0.00062	U	0.0078	0.00062	0.00062	U	0.0077	0.00062	0.0007	U	0.0087	0.0007	0.00076	U	0.0095	0.00076
1,2,-Dibromoethane	0.005	0.0013		0.00066	U	0.0082	0.00066	0.00058	U	0.0073	0.00058	0.00062	U	0.0078	0.00062	0.00062	U	0.0077	0.00062	0.0007	U	0.0087	0.0007	0.00076	U	0.0095	0.00076
Semivolatile Organic Compounds																											
Anthracene	350	--		0.066		0.021	0.0042	0.038		0.021	0.0042	0.0042	U	0.021	0.0042	0.0042	U	0.021	0.0042	0.420		0.021	0.0043	0.110		0.021	0.0042
Benzo(a)anthracene	130	--		0.210		0.021	0.0042	0.026		0.021	0.0042	0.0042	U	0.021	0.0042	0.0042	U	0.021	0.0042	3.10		0.021	0.0043	0.290		0.021	0.0042
Benzo(a)pyrene	46	--		0.160		0.021	0.0042	0.031		0.021	0.0042	0.0042	U	0.021	0.0042	0.0042	U	0.021	0.0042	2.70		0.021	0.0043	0.200		0.021	0.0042
Benzo(b)fluoranthene	76	--		0.190		0.021	0.0042	0.049		0.021	0.0042	0.00561	J	0.021	0.0042	0.00491	J	0.021	0.0042	2.80		0.021	0.0043	0.300		0.021	0.0042
Benzo(g,h,i)perylene	180	--		0.110		0.021	0.0042	0.032		0.021	0.0042	0.0042	U	0.021	0.0042	0.0042	U	0.021	0.0042	1.70		0.021	0.0043	0.150		0.021	0.0042
Chrysene	230	--		0.200		0.021	0.0042	0.039		0.021	0.0042	0.00761	J	0.021	0.0042	0.0042	U	0.021	0.0042	2.60		0.021	0.0043	0.280		0.021	0.0042
Fluorene	3,800	--		0.028		0.021	0.0042	0.00771	J	0.021	0.0042	0.0042	U	0.021	0.0042	0.0042	U	0.021	0.0042	0.054		0.021	0.0043	0.043		0.021	0.0042
Phenanthrene	10,000	--		0.280		0.021	0.005	0.100		0.021	0.0051	0.062		0.021	0.005	0.005	U	0.021	0.005	0.820		0.021	0.0051	0.470		0.021	0.005
Pyrene	2,200	--		0.350		0.021	0.0042	0.056		0.021	0.0042	0.00841	J	0.021	0.0042	0.0042	U	0.021	0.0042	4.10		0.021	0.0043	0.470		0.021	0.0042
Inorganics																											
Lead	450	--		87		1.4	0.57	490		1.60	0.62	9.70		1.50	0.61	120.00		1.70	0.67	880		1.50	0.61	560	F2	1.50	0.59

Table 3
Tank Containment Area 2 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	1043-Center / 2 / 410-55731-3 / 9/16/2021 / 5.0				1044-P1 / 2 / 410-51318-3 / 8/12/2021 / 3.0				1044-P2 / 2 / 410-51318-6 / 8/13/2021 / 3.0				1044-P3 / 2 / 410-51318-4 / 8/12/2021 / 3.0				1044-P4 / 2 / 410-50281-12 / 8/5/2021 / 3.0				1044-P5 / 2 / 410-51060-7 / 8/11/2021 / 3.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.038	U	0.47	0.038	0.036	U	0.45	0.036	0.00057	U	0.0071	0.00057	0.0006	U	0.0075	0.0006	0.00054	U	0.0067	0.00054	0.0008	U	0.01	0.0008
1,2-Dichloroethane	0.5	3.9		0.057	U	0.47	0.057	0.053	U	0.45	0.053	0.00085	U	0.0071	0.00085	0.0009	U	0.0075	0.0009	0.0008	U	0.0067	0.0008	0.00120	U	0.01	0.00120
1,3,5-Trimethylbenzene	93	93		0.047	U	0.47	0.047	0.045	U	0.45	0.045	0.00071	U	0.0071	0.00071	0.00075	U	0.0075	0.00075	0.00067	U	0.0067	0.00067	0.001	U	0.01	0.001
Toluene	100	44		0.057	U	0.47	0.057	0.053	U	0.45	0.053	0.00151	J	0.0071	0.00	0.0009	U	0.0075	0.0009	0.0008	U	0.0067	0.0008	0.0012	U	0.01	0.0012
Xylenes, total	1,000	990		0.13	U	0.94	0.13	0.12	U	0.89	0.12	0.002	U	0.014	0.002	0.0021	U	0.015	0.0021	0.002	U	0.013	0.002	0.0028	U	0.02	0.0028
Methyl tert-butyl ether	2	1.4		0.047	U	0.47	0.047	0.045	U	0.45	0.045	0.00071	U	0.0071	0.00071	0.00075	U	0.0075	0.00075	0.001	U	0.0067	0.001	0.001	U	0.01	0.001
Benzene	0.5	0.13		0.047	U	0.47	0.047	0.045	U	0.45	0.045	0.00361	J	0.0071	0.00071	0.00075	U	0.0075	0.00075	0.00131	J	0.0067	0.001	0.001	U	0.01	0.001
Naphthalene	25	25		0.19	U	0.47	0.19	0.18	U	0.45	0.18	0.0028	U	0.0071	0.0028	0.003	U	0.0075	0.003	0.00270	U	0.0067	0.00270	0.004	U	0.01	0.004
1,2,4-Trimethylbenzene	300	300		0.047	U	0.47	0.047	0.045	U	0.45	0.045	0.00071	U	0.0071	0.00071	0.00075	U	0.0075	0.00075	0.001	U	0.0067	0.001	0.001	U	0.01	0.001
Isopropylbenzene	2,500	2,500		0.038	U	0.47	0.038	0.036	U	0.45	0.036	0.00057	U	0.0071	0.00057	0.0006	U	0.0075	0.0006	0.00054	U	0.0067	0.00054	0.0008	U	0.01	0.0008
1,2,-Dibromoethane	0.005	0.0013		***0.038***	U	0.47	0.038	***0.036***	U	0.45	0.036	0.00057	U	0.0071	0.00057	0.0006	U	0.0075	0.0006	0.00054	U	0.0067	0.00054	0.0008	U	0.01	0.0008
Semivolatile Organic Compounds																											
Anthracene	350	--		0.0041	U	0.02	0.0041	0.00951	J	0.021	0.0042	0.028		0.023	0.0046	0.05		0.025	0.005	0.064		0.023	0.0045	0.039		0.024	0.0048
Benzo(a)anthracene	130	--		0.0041	U	0.02	0.0041	0.0181	J	0.021	0.0042	0.18		0.023	0.0046	0.18		0.025	0.005	0.120		0.023	0.0045	0.0171	J	0.024	0.0048
Benzo(a)pyrene	46	--		0.0041	U	0.02	0.0041	0.0181	J	0.021	0.0042	0.2		0.023	0.0046	0.2		0.025	0.005	0.095		0.023	0.0045	0.024		0.024	0.0048
Benzo(b)fluoranthene	76	--		0.00421	J	0.02	0.0041	0.025		0.021	0.0042	0.23		0.023	0.0046	0.33		0.025	0.005	0.120		0.023	0.0045	0.033		0.024	0.0048
Benzo(g,h,i)perylene	180	--		0.0041	U	0.02	0.0041	0.0171	J	0.021	0.0042	0.16		0.023	0.0046	0.22		0.025	0.005	0.077		0.023	0.0045	0.0221	J	0.024	0.0048
Chrysene	230	--		0.0041	U	0.02	0.0041	0.0201	J	0.021	0.0042	0.18		0.023	0.0046	0.25		0.025	0.005	0.120		0.023	0.0045	0.028		0.024	0.0048
Fluorene	3,800	--		0.0041	U	0.02	0.0041	0.0042	U	0.021	0.0042	0.00851	J	0.023	0.0046	0.01	U	0.025	0.005	0.370		0.023	0.0045	0.0048	U	0.024	0.0048
Phenanthrene	10,000	--		0.1		0.02	0.0049	0.028		0.021	0.005	0.11		0.023	0.0055	0.16		0.025	0.006	0.099		0.023	0.0054	0.036		0.024	0.0058
Pyrene	2,200	--		0.0041	U	0.02	0.0041	0.025		0.021	0.0042	0.2		0.023	0.0046	0.32		0.025	0.005	0.150		0.023	0.0045	0.034		0.024	0.0048
Inorganics																											
Lead	450	--		23.00		1.70	0.67	90.00		1.70	0.68	380.00		2.00	0.81	810		1.90	0.76	2100		1.90	0.78	120.00		1.50	0.59

Table 3
Tank Containment Area 2 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	1044-Center 2 410-55731-1 9/16/2021 5.0				Pipe 45 2 410-50281-24 8/5/2021 2.0				Pipe 46 2 410-50281-26 8/5/2021 2.0				Pipe 47 2 410-50281-25 8/5/2021 2.0				Pipe 48 2 410-50281-27 8/5/2021 2.0				Pipe 49 2 410-50281-23 8/5/2021 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.039	U	0.49	0.039	0.037	U	0.47	0.037	0.037	U	0.46	0.037	0.041	U	0.51	0.041	0.000651	J	0.0079	0.00064	0.00056	U	0.007	0.00056
1,2-Dichloroethane	0.5	3.9		0.059	U	0.49	0.059	0.05600	U	0.47	0.05600	0.055	U	0.46	0.055	0.061	U	0.51	0.061	0.00095	U	0.0079	0.00095	0.00084	U	0.007	0.00084
1,3,5-Trimethylbenzene	93	93		0.049	U	0.49	0.049	0.047	U	0.47	0.047	0.046	U	0.46	0.046	0.051	U	0.51	0.051	0.00079	U	0.0079	0.00079	0.0007	U	0.007	0.0007
Toluene	100	44		0.059	U	0.49	0.059	0.05600	U	0.47	0.05600	0.055	U	0.46	0.055	0.061	U	0.51	0.061	0.00231	J	0.0079	0.00	0.00084	U	0.007	0.00084
Xylenes, total	1,000	990		0.14	U	0.98	0.14	0.13	U	0.94	0.130	0.13	U	0.92	0.13	0.14	U	1	0.14	0.00351	J	0.016	0.002	0.0019	U	0.014	0.0019
Methyl tert-butyl ether	2	1.4		0.049	U	0.49	0.049	0.047	U	0.47	0.047	0.046	U	0.46	0.046	0.051	U	0.51	0.051	0.00079	U	0.0079	0.00079	0.0007	U	0.007	0.0007
Benzene	0.5	0.13		0.049	U	0.49	0.049	0.047	U	0.47	0.047	0.046	U	0.46	0.046	0.051	U	0.51	0.051	0.000931	J	0.0079	0.00079	0.00111	J	0.007	0.0007
Naphthalene	25	25		0.55		0.49	0.20000	0.19000	U	0.47	0.19000	0.18	U	0.46	0.18	0.2	U	0.51	0.2	0.0032	U	0.0079	0.0032	0.0028	U	0.007	0.0028
1,2,4-Trimethylbenzene	300	300		0.049	U	0.49	0.049	0.0751	J	0.47	0.047	0.046	U	0.46	0.046	0.051	U	0.51	0.051	0.000871	J	0.0079	0.001	0.0007	U	0.007	0.0007
Isopropylbenzene	2,500	2,500		0.039	U	0.49	0.039	0.037	U	0.47	0.037	0.037	U	0.46	0.037	0.041	U	0.51	0.041	0.00064	U	0.0079	0.00064	0.00056	U	0.007	0.00056
1,2,-Dibromoethane	0.005	0.0013		***0.039***	U	0.49	0.039	***0.037***	U	0.47	0.037	***0.037***	U	0.46	0.037	***0.041***	U	0.51	0.041	0.00064	U	0.0079	0.00064	0.00056	U	0.007	0.00056
Semivolatile Organic Compounds																											
Anthracene	350	--		0.0141	J	0.024	0.0048	0.022		0.02	0.0039	0.1301	J	0.4	0.081	0.038	U	0.19	0.038	0.0039	U	0.019	0.0039	0.0131	J	0.02	0.0039
Benzo(a)anthracene	130	--		0.075		0.024	0.0048	0.00671	J	0.02	0.0039	0.3701	J	0.4	0.081	0.038	U	0.19	0.038	0.019		0.019	0.0039	0.0191	J	0.02	0.0039
Benzo(a)pyrene	46	--		0.13		0.024	0.0048	0.00671	J	0.02	0.0039	0.3801	J	0.4	0.081	0.038	U	0.19	0.038	0.0151	J	0.019	0.0039	0.020		0.02	0.0039
Benzo(b)fluoranthene	76	--		0.16		0.024	0.0048	0.0141	J	0.02	0.0039	0.440		0.4	0.081	0.038	U	0.19	0.038	0.0141	J	0.019	0.0039	0.027		0.02	0.0039
Benzo(g,h,i)perylene	180	--		0.098		0.024	0.0048	0.00931	J	0.02	0.0039	0.3401	J	0.4	0.081	0.0801	J	0.19	0.038	0.027		0.019	0.0039	0.022		0.02	0.0039
Chrysene	230	--		0.097		0.024	0.0048	0.0111	J	0.02	0.0039	0.460		0.4	0.081	0.038	U	0.19	0.038	0.045		0.019	0.0039	0.025		0.02	0.0039
Fluorene	3,800	--		0.00	U	0.024	0.0048	0.0039	U	0.02	0.0039	0.08	U	0.4	0.081	0.038	U	0.19	0.038	0.0039	U	0.019	0.0039	0.0039	U	0.02	0.0039
Phenanthrene	10,000	--		0.075		0.024	0.0058	0.032		0.02	0.005	0.560		0.4	0.097	0.038	U	0.19	0.038	0.079		0.019	0.005	0.052		0.02	0.0047
Pyrene	2,200	--		0.079		0.024	0.0048	0.0151	J	0.02	0.0039	0.700		0.4	0.081	0.038	U	0.19	0.038	0.074		0.019	0.0039	0.050		0.02	0.0039
Inorganics																											
Lead	450	--		990		2.00	0.81	330.00		1.70	0.68	600		1.80	0.70	69.00		1.50	0.59	15.00		1.30	0.54	78.00		1.40	0.55

Table 3
Tank Containment Area 2 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	Pipe 50 / 2 / 410-50281-22 / 8/5/2021 / 2.0				Pipe 51 / 2 / 410-50281-31 / 8/5/2021 / 2.0				Pipe 52 / 2 / 410-50281-32 / 8/5/2021 / 2.0				Pipe 53 / 2 / 410-50281-11 / 8/5/2021 / 2.0				Pipe 54 / 2 / 410-50672-7 / 8/9/2021 / 2.0				Pipe 55 / 2 / 410-50281-13 / 8/5/2021 / 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.00061	U	0.0077	0.00061	0.00077	U	0.0097	0.00077	0.0006	U	0.0075	0.0006	0.00071	U	0.0089	0.00071	0.00059	U	0.0073	0.00059	0.048	U	0.6	0.048
1,2-Dichloroethane	0.5	3.9		0.00092	U	0.0077	0.00092	0.00120	U	0.0097	0.00120	0.0009	U	0.0075	0.0009	0.0011	U	0.0089	0.0011	0.00088	U	0.0073	0.00088	0.07200	U	0.6	0.07200
1,3,5-Trimethylbenzene	93	93		0.00077	U	0.0077	0.00077	0.00097	U	0.0097	0.00097	0.00075	U	0.0075	0.00075	0.00089	U	0.0089	0.00089	0.00073	U	0.0073	0.00073	0.06	U	0.6	0.06
Toluene	100	44		0.00092	U	0.0077	0.00092	0.0012	U	0.0097	0.0012	0.0009	U	0.0075	0.0009	0.0011	U	0.0089	0.0011	0.00088	U	0.0073	0.00088	0.072	U	0.6	0.072
Xylenes, total	1,000	990		0.0022	U	0.015	0.0022	0.0027	U	0.019	0.0027	0.0021	U	0.015	0.0021	0.0025	U	0.018	0.0025	0.0021	U	0.015	0.0021	0.17	U	1.2	0.17
Methyl tert-butyl ether	2	1.4		0.00077	U	0.0077	0.00077	0.00097	U	0.0097	0.00097	0.00075	U	0.0075	0.00075	0.00089	U	0.0089	0.00089	0.00073	U	0.0073	0.00073	0.06	U	0.6	0.06
Benzene	0.5	0.13		0.00077	U	0.0077	0.00077	0.00151	J	0.0097	0.00097	0.00075	U	0.0075	0.00075	0.00089	U	0.0089	0.00089	0.00073	U	0.0073	0.00073	0.06	U	0.6	0.06
Naphthalene	25	25		0.0031	U	0.0077	0.0031	0.0039	U	0.0097	0.0039	0.003	U	0.0075	0.003	0.036	U	0.0089	0.036	0.0029	U	0.0073	0.0029	0.24	U	0.6	0.24
1,2,4-Trimethylbenzene	300	300		0.00077	U	0.0077	0.00077	0.00097	U	0.0097	0.00097	0.00075	U	0.0075	0.00075	0.00089	U	0.0089	0.00089	0.00073	U	0.0073	0.00073	0.06	U	0.6	0.06
Isopropylbenzene	2,500	2,500		0.00061	U	0.0077	0.00061	0.00077	U	0.0097	0.00077	0.0006	U	0.0075	0.0006	0.00071	U	0.0089	0.00071	0.00059	U	0.0073	0.00059	0.048	U	0.6	0.048
1,2,-Dibromoethane	0.005	0.0013		0.00061	U	0.0077	0.00061	0.00077	U	0.0097	0.00077	0.0006	U	0.0075	0.0006	0.00071	U	0.0089	0.00071	0.00059	U	0.0073	0.00059	0.048	U	0.6	0.048
Semivolatile Organic Compounds																											
Anthracene	350	--		0.0041	U	0.021	0.0041	0.0801	J	0.1	0.021	0.0181	J	0.023	0.0046	0.045	U	0.22	0.045	0.00521	J	0.021	0.0043	0.110		0.023	0.0047
Benzo(a)anthracene	130	--		0.00981	J	0.021	0.0041	0.021	U	0.1	0.021	0.028		0.023	0.0046	0.1701	J	0.22	0.045	0.00961	J	0.021	0.0043	0.510		0.023	0.0047
Benzo(a)pyrene	46	--		0.00621	J	0.021	0.0041	0.021	U	0.1	0.021	0.0046	U	0.023	0.0046	0.220		0.22	0.045	0.00431	J	0.021	0.0043	0.460		0.023	0.0047
Benzo(b)fluoranthene	76	--		0.00991	J	0.021	0.0041	0.021	U	0.1	0.021	0.034		0.023	0.0046	0.230		0.22	0.045	0.0101	J	0.021	0.0043	0.580		0.023	0.0047
Benzo(g,h,i)perylene	180	--		0.0111	J	0.021	0.0041	0.710		0.1	0.021	0.0046	U	0.023	0.0046	0.1601	J	0.22	0.045	0.0043	U	0.021	0.0043	0.330		0.023	0.0047
Chrysene	230	--		0.00971	J	0.021	0.0041	0.021	U	0.1	0.021	0.040		0.023	0.0046	0.1701	J	0.22	0.045	0.0151	J	0.021	0.0043	0.580		0.023	0.0047
Fluorene	3,800	--		0.0041	U	0.021	0.0041	0.021	U	0.1	0.021	0.0046	U	0.023	0.0046	0.045	U	0.22	0.045	0.0043	U	0.021	0.0043	0.092		0.023	0.0047
Phenanthrene	10,000	--		0.0101	J	0.021	0.005	0.270		0.1	0.025	0.064		0.023	0.0055	0.0561	J	0.22	0.054	0.038		0.021	0.005	1.10		0.023	0.0056
Pyrene	2,200	--		0.0131	J	0.021	0.0041	0.100		0.1	0.021	0.039		0.023	0.0046	0.220		0.22	0.045	0.041		0.021	0.0043	0.930		0.023	0.0047
Inorganics																											
Lead	450	--		320.00		1.70	0.69	460		1.60	0.64	110.00		1.40	0.57	83.00		1.40	0.58	35.00		1.90	0.75	750	F2	1.80	0.73

Table 3
Tank Containment Area 2 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID Area Laboratory ID Collection Date Sample Depth	Pipe 56 2 410-50672-6 8/9/2021 2.0				Pipe 57 2 410-50672-3 8/9/2021 2.0				Pipe 58 2 410-50672-4 8/9/2021 2.0				Pipe 59 2 410-50672-5 8/9/2021 2.0				Pipe 60 2 410-50151-31 8/5/2021 2.0				Pipe 61 2 410-50151-8 8/5/2021 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.00071	U	0.0089	0.00071	0.00091	U	0.011	0.00091	0.00083	U	0.01	0.00083	0.00076	U	0.0095	0.00076	0.00055	U	0.0069	0.00055	0.00047	U	0.0059	0.00047
1,2-Dichloroethane	0.5	3.9		0.0011	U	0.0089	0.0011	0.0014	U	0.011	0.0014	0.0012	U	0.01	0.0012	0.0011	U	0.0095	0.0011	0.00082	U	0.0069	0.00082	0.00071	U	0.0059	0.00071
1,3,5-Trimethylbenzene	93	93		0.00089	U	0.0089	0.00089	0.0011	U	0.011	0.0011	0.001	U	0.01	0.001	0.00095	U	0.0095	0.00095	0.00069	U	0.0069	0.00069	0.00059	U	0.0059	0.00059
Toluene	100	44		0.0011	U	0.0089	0.0011	0.0014	U	0.011	0.0014	0.0012	U	0.01	0.0012	0.0011	U	0.0095	0.0011	0.00391	J	0.0069	0.00	0.00071	U	0.0059	0.00071
Xylenes, total	1,000	990		0.0025	U	0.018	0.0025	0.0032	U	0.023	0.0032	0.0029	U	0.021	0.0029	0.0027	U	0.019	0.0027	0.00381	J	0.014	0.002	0.0016	U	0.012	0.0016
Methyl tert-butyl ether	2	1.4		0.00089	U	0.0089	0.00089	0.0011	U	0.011	0.0011	0.001	U	0.01	0.001	0.00095	U	0.0095	0.00095	0.00069	U	0.0069	0.00069	0.00059	U	0.0059	0.00059
Benzene	0.5	0.13		0.00089	U	0.0089	0.00089	0.0011	U	0.011	0.0011	0.001	U	0.01	0.001	0.00095	U	0.0095	0.00095	0.00201	J	0.0069	0.00069	0.000971	J	0.0059	0.00059
Naphthalene	25	25		0.0035	U	0.0089	0.0035	0.0045	U	0.011	0.0045	0.0041	U	0.01	0.0041	0.0038	U	0.0095	0.0038	0.00501	J	0.0069	0.00270	0.0024	U	0.0059	0.0024
1,2,4-Trimethylbenzene	300	300		0.00089	U	0.0089	0.00089	0.0011	U	0.011	0.0011	0.001	U	0.01	0.001	0.00095	U	0.0095	0.00095	0.00069	U	0.0069	0.00069	0.00059	U	0.0059	0.00059
Isopropylbenzene	2,500	2,500		0.00071	U	0.0089	0.00071	0.00091	U	0.011	0.00091	0.00083	U	0.01	0.00083	0.00076	U	0.0095	0.00076	0.00055	U	0.0069	0.00055	0.00047	U	0.0059	0.00047
1,2,-Dibromoethane	0.005	0.0013		0.00071	U	0.0089	0.00071	0.00091	U	0.011	0.00091	0.00083	U	0.01	0.00083	0.00076	U	0.0095	0.00076	0.00055	U	0.0069	0.00055	0.00047	U	0.0059	0.00047
Semivolatile Organic Compounds																											
Anthracene	350	--		0.00811		0.02	0.004	0.0063	U	0.031	0.0063	0.0044	U	0.022	0.0044	0.00791	J	0.03	0.006	0.130		0.021	0.0042	0.170		0.021	0.0041
Benzo(a)anthracene	130	--		0.026		0.02	0.004	0.0063	U	0.031	0.0063	0.00891	J	0.022	0.0044	0.00711	J	0.03	0.006	0.0101	J	0.021	0.0042	0.031		0.021	0.0041
Benzo(a)pyrene	46	--		0.027		0.02	0.004	0.0063	U	0.031	0.0063	0.00571	J	0.022	0.0044	0.00611	J	0.03	0.006	0.0101	J	0.021	0.0042	0.032		0.021	0.0041
Benzo(b)fluoranthene	76	--		0.032		0.02	0.004	0.0063	U	0.031	0.0063	0.0141	J	0.022	0.0044	0.006	U	0.03	0.006	0.0131	J	0.021	0.0042	0.051		0.021	0.0041
Benzo(g,h,i)perylene	180	--		0.023		0.02	0.004	0.0241	J	0.031	0.0063	0.00871	J	0.022	0.0044	0.00911	J	0.03	0.006	0.00851	J	0.021	0.0042	0.037		0.021	0.0041
Chrysene	230	--		0.028		0.02	0.004	0.0063	U	0.031	0.0063	0.031		0.022	0.0044	0.006	U	0.03	0.006	0.023		0.021	0.0042	0.042		0.021	0.0041
Fluorene	3,800	--		0.004	U	0.02	0.004	0.0063	U	0.031	0.0063	0.0044	U	0.022	0.0044	0.006	U	0.03	0.006	0.0042	U	0.021	0.0042	0.0041	U	0.021	0.0041
Phenanthrene	10,000	--		0.029		0.02	0.005	0.0063	U	0.031	0.0063	0.053		0.022	0.005	0.0072	U	0.03	0.0072	0.110		0.021	0.005	0.093		0.021	0.005
Pyrene	2,200	--		0.040		0.02	0.004	0.0063	U	0.031	0.0063	0.0161	J	0.022	0.0044	0.006	U	0.03	0.006	0.022		0.021	0.0042	0.052		0.021	0.0041
Inorganics																											
Lead	450	--		160.00	F2	1.70	0.69	16.00		2.40	0.96	12		1.80	0.72	25		2.70	1.10	190		1.30	0.53	570		1.4	0.6

Table 3
Tank Containment Area 2 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID Area Laboratory ID Collection Date Sample Depth	Pipe 62 2 410-51318-2 8/12/2021 2.0				Pipe 63 2 410-51318-1 8/12/2021 2.0				Pipe 64 2 410-51060-12 8/12/2021 2.0				Pipe 65 2 410-51060-14 8/12/2021 2.0				Pipe 66 2 410-51060-13 8/12/2021 2.0				Pipe 67 2 410-50672-8 8/9/2021 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.046	U	0.58	0.046	0.0008	U	0.01	0.0008	0.00077	U	0.0096	0.00077	0.00064	U	0.008	0.00064	0.0007	U	0.0088	0.0007	0.00063	U	0.0079	0.00063
1,2-Dichloroethane	0.5	3.9		0.07	U	0.58	0.07	0.0012	U	0.01	0.0012	0.0012	U	0.0096	0.0012	0.00096	U	0.008	0.00096	0.0011	U	0.0088	0.0011	0.00094	U	0.0079	0.00094
1,3,5-Trimethylbenzene	93	93		0.058	U	0.58	0.058	0.001	U	0.01	0.001	0.00096	U	0.0096	0.00096	0.0008	U	0.008	0.0008	0.00088	U	0.0088	0.00088	0.00079	U	0.0079	0.00079
Toluene	100	44		0.07	U	0.58	0.07	0.0012	U	0.01	0.0012	0.00191	J	0.0096	0.00	0.00096	U	0.008	0.00096	0.00451	J	0.0088	0.00	0.00191	J	0.0079	0.00
Xylenes, total	1,000	990		0.16	U	1.2	0.16	0.0028	U	0.02	0.0028	0.0027	U	0.019	0.0027	0.0022	U	0.016	0.0022	0.0025	U	0.018	0.0025	0.0022	U	0.016	0.0022
Methyl tert-butyl ether	2	1.4		0.058	U	0.58	0.058	0.001	U	0.01	0.001	0.00096	U	0.0096	0.00096	0.0008	U	0.008	0.0008	0.00088	U	0.0088	0.00088	0.00079	U	0.0079	0.00079
Benzene	0.5	0.13		0.058	U	0.58	0.058	0.001	U	0.01	0.001	0.00221	J	0.0096	0.00096	0.000841	J	0.008	0.0008	0.00321	J	0.0088	0.00088	0.00241	J	0.0079	0.00079
Naphthalene	25	25		0.23	U	0.58	0.23	0.004	U	0.01	0.004	0.0039	U	0.0096	0.0039	0.0032	U	0.008	0.0032	0.0035	U	0.0088	0.0035	0.0031	U	0.0079	0.0031
1,2,4-Trimethylbenzene	300	300		0.058	U	0.58	0.058	0.001	U	0.01	0.001	0.00096	U	0.0096	0.00096	0.0008	U	0.008	0.0008	0.00088	U	0.0088	0.00088	0.00079	U	0.0079	0.00079
Isopropylbenzene	2,500	2,500		0.046	U	0.58	0.046	0.0008	U	0.01	0.0008	0.00077	U	0.0096	0.00077	0.00064	U	0.008	0.00064	0.0007	U	0.0088	0.0007	0.00063	U	0.0079	0.00063
1,2,-Dibromoethane	0.005	0.0013		***0.046***	U	0.58	0.046	0.0008	U	0.01	0.0008	0.00077	U	0.0096	0.00077	0.00064	U	0.008	0.00064	0.0007	U	0.0088	0.0007	0.00063	U	0.0079	0.00063
Semivolatile Organic Compounds																											
Anthracene	350	--		0.0045	U	0.022	0.0045	0.00581	J	0.023	0.0045	0.0048	U	0.024	0.0048	0.0161	J	0.022	0.0044	0.00541	J	0.024	0.0048	0.0181	J	0.021	0.0041
Benzo(a)anthracene	130	--		0.0045	U	0.022	0.0045	0.00841	J	0.023	0.0045	0.0151	J	0.024	0.0048	0.025		0.022	0.0044	0.0161	J	0.024	0.0048	0.036		0.021	0.0041
Benzo(a)pyrene	46	--		0.0045	U	0.022	0.0045	0.00821	J	0.023	0.0045	0.0151	J	0.024	0.0048	0.025		0.022	0.0044	0.0171	J	0.024	0.0048	0.046		0.021	0.0041
Benzo(b)fluoranthene	76	--		0.0045	U	0.022	0.0045	0.0191	J	0.023	0.0045	0.0201	J	0.024	0.0048	0.034		0.022	0.0044	0.025		0.024	0.0048	0.068		0.021	0.0041
Benzo(g,h,i)perylene	180	--		0.0045	U	0.022	0.0045	0.023		0.023	0.0045	0.0111	J	0.024	0.0048	0.0211	J	0.022	0.0044	0.0171	J	0.024	0.0048	0.058		0.021	0.0041
Chrysene	230	--		0.0045	U	0.022	0.0045	0.0131	J	0.023	0.0045	0.0151	J	0.024	0.0048	0.035		0.022	0.0044	0.0181	J	0.024	0.0048	0.052		0.021	0.0041
Fluorene	3,800	--		0.0045	U	0.022	0.0045	0.0045	U	0.023	0.0045	0.0048	U	0.024	0.0048	0.0111	J	0.022	0.0044	0.0048	U	0.024	0.0048	0.0141	J	0.021	0.0041
Phenanthrene	10,000	--		0.0054	U	0.022	0.0054	0.0191	J	0.023	0.005	0.0161	J	0.024	0.006	0.074		0.022	0.0053	0.00221	J	0.024	0.0058	0.120		0.021	0.0049
Pyrene	2,200	--		0.039		0.022	0.0045	0.0131	J	0.023	0.0045	0.0231	J	0.024	0.0048	0.065		0.022	0.0044	0.024		0.024	0.0048	0.063		0.021	0.0041
Inorganics																											
Lead	450	--		29.0		1.8	0.7	70.0		1.6	0.6	190.0		2.1	0.8	44.0		1.9	0.8	180.0		1.8	0.7	93.0		1.6	0.7

Table 3
Tank Containment Area 2 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Notes:

1. Samples were collected by Stantec Consulting Services, Inc. on behalf of PBF Logistics Products Terminals LLC.
2. Concentrations are reported in milligrams per kilogram.
3. Shaded results indicate detected concentrations in exceedance of the Representative Pennsylvania Soil MSCs.
4. There were no exceedances of the Pennsylvania Non-Residential Vapor Intrusion screening values for detected values.
5. ***Bold and italicized*** values indicate a non-detected result with the MDL greater than the MSC.

Acronyms and Abbreviations:

' = foot/feet
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
AST = aboveground storage tank
Conc = concentration
GW = groundwater
ID = identification
MDL = method detection limit
MSC = Medium Specific Concentration
Q = qualifier
RL = reporting limit

Laboratory Qualifiers:

J = The compound was detected; however, the concentration is below the laboratory reporting limit, so the concentration is estimated.
U = Compound was undetected at the listed laboratory method detection limit.

Table 4
Tank Containment Area 2 - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: Tank Containment Area Laboratory ID: Collection Date: Sample Depth: Sample Matrix:	1044-P4 (6.5-7) 2 L2158069-08 10/22/2021 6.5-7 SOIL				1043-P4 (7.5-8) 2 L2314083-02 3/17/2023 7.5-8 SOIL				1043-P5 (7.5-8) 2 L2314083-03 3/17/2023 7.5-8 SOIL				SB-305 (2.5-3) 2 L2314083-06 3/17/2023 2.5-3 SOIL				SB-305 (7.5-8) 2 L2314083-07 3/17/2023 7.5-8 SOIL				SB-306 (2.5-3) 2 L2314083-08 3/17/2023 2.5-3 SOIL				SB-315 (2.5-3) 2 L2314083-19 3/17/2023 2.5-3 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Total Inorganics																																
Lead, total	450	--		226		2.89	0.155	56		2.47	0.132	39.8		2.76	0.148	602		2.38	0.128	37		2.27	0.122	11.6		2.54	0.136	41.6		2.52	0.135
General Chemistry																																
Solids, total	--	--		69.2		0.1	-	79.7		0.1	-	70.6		0.1	-	82.6		0.1	-	86.6		0.1	-	76.1		0.1	-	77.3		0.1	-

Notes:
1. Samples were collected by Arcadis U.S., Inc. on behalf of Alliance 51st Street LLC.
2. Concentrations are reported in milligrams per kilogram.
3. Shaded results indicate detected concentrations in exceedance of the Representative Pennsylvania Soil MSC.

Acronyms and Abbreviations:
' = foot/feet
- = data not available
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
Conc = concentration
GW = groundwater
ID = identification
MDL = method detection limit
MSC = Medium Specific Concentration
Q = qualifier
RL = reporting limit

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	941-P1 / 3 / 410-50879-4 / 8/10/2021 / 3.0				941-P2 / DUP-5								941-P3 / 3 / 410-50879-1 / 8/10/2021 / 3.0				941-P4 / 3 / 410-50879-2 / 8/10/2021 / 3.0				941-P5 / 3 / 410-50879-3 / 8/10/2021 / 3.0			
								3 / 410-50672-11 / 8/10/2021 / 2.0				3 / 410-50672-9 / 8/10/2021															
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.00031	U	0.004	3E-04	0.00093	U	0.012	9E-04	0.00077	U	0.01	8E-04	0.000811	J	0.009	8E-04	0.045	U	0.56	0.045	0.00076	U	0.01	8E-04
1,2-Dichloroethane	0.5	3.9		0.00046	U	0.004	5E-04	0.00271	J	0.012	0.001	0.00201	J	0.01	0.001	0.00391	J^c	0.009	0.001	0.067	U	0.56	0.067	0.00651	J	0.01	0.001
1,3,5-Trimethylbenzene	93	93		0.00038	U	0.004	4E-04	0.00321	J	0.012	0.001	0.00141	J	0.01	1E-03	0.00221	J	0.009	9E-04	0.056	U	0.56	0.056	0.00131	J	0.01	1E-03
Toluene	100	44		0.00046	U	0.004	5E-04	0.040		0.012	0.001	0.018		0.01	0.001	0.037		0.009	0.001	0.067	U	0.56	0.067	0.030		0.01	0.001
Xylenes, total	1,000	990		0.0011	U	0.008	0.001	0.0211	J	0.023	0.003	0.00921	J	0.019	0.003	0.0141	J	0.019	0.003	0.16	U	1.1	0.16	0.00851	J	0.019	0.003
Methyl tert-butyl ether	2	1.4		0.00038	U	0.004	4E-04	0.0012	U	0.012	0.001	0.00096	U	0.01	1E-03	0.00094	U	0.009	9E-04	0.056	U	0.56	0.056	0.00095	U	0.01	1E-03
Benzene	0.5	0.13		0.00038	U	0.004	4E-04	0.028		0.012	0.001	0.017		0.01	1E-03	0.046		0.009	9E-04	0.056	U	0.56	0.056	0.038		0.01	1E-03
Naphthalene	25	25		0.0015	U	0.004	0.002	0.0047	U	0.012	0.005	0.0038	U	0.01	0.004	0.0038	U	0.009	0.004	0.22	U	0.56	0.22	0.0038	U	0.01	0.004
1,2,4-Trimethylbenzene	300	300		0.00038	U	0.004	4E-04	0.00581	J	0.012	0.001	0.00221	J	0.01	1E-03	0.00191	J	0.009	9E-04	0.056	U	0.56	0.056	0.00141	J	0.01	1E-03
Isopropylbenzene	2,500	2,500		0.00031	U	0.004	3E-04	0.00093	U	0.012	9E-04	0.00077	U	0.01	8E-04	0.00075	U	0.009	8E-04	0.045	U	0.56	0.045	0.00076	U	0.01	8E-04
1,2,-Dibromoethane	0.005	0.0013		0.00031	U	0.004	3E-04	0.00093	U	0.012	9E-04	0.00077	U	0.01	8E-04	0.00075	U	0.009	8E-04	***0.045***	U	0.56	0.045	0.00076	U	0.01	8E-04
Semivolatile Organic Compounds																											
Anthracene	350	--		0.0039	U	0.02	0.004	0.037		0.025	0.005	0.023		0.023	0.005	0.0044	U	0.022	0.004	0.0041	U	0.021	0.004	0.0042	U	0.021	0.004
Benzo(a)anthracene	130	--		0.00461	J	0.02	0.004	0.081		0.025	0.005	0.052		0.023	0.005	0.00471	J F2 FL	0.022	0.004	0.00591	J	0.021	0.004	0.00661	J	0.021	0.004
Benzo(a)pyrene	46	--		0.00401	J	0.02	0.004	0.120		0.025	0.005	0.075		0.023	0.005	0.0044	U	0.022	0.004	0.00641	J	0.021	0.004	0.00681	J	0.021	0.004
Benzo(b)fluoranthene	76	--		0.00531	J	0.02	0.004	0.170		0.025	0.005	0.100		0.023	0.005	0.00641	J F2 FL	0.022	0.004	0.00951	J	0.021	0.004	0.0111	J	0.021	0.004
Benzo(g,h,i)perylene	180	--		0.0039	U	0.02	0.004	0.130		0.025	0.005	0.087		0.023	0.005	0.0044	U	0.022	0.004	0.00751	J	0.021	0.004	0.00931	J	0.021	0.004
Chrysene	230	--		0.00481	J	0.02	0.004	0.100		0.025	0.005	0.063		0.023	0.005	0.00851	J F2 FL	0.022	0.004	0.0121	J	0.021	0.004	0.0161	J	0.021	0.004
Fluorene	3,800	--		0.0039	U	0.02	0.004	0.00741	J	0.025	0.005	0.0046	U	0.023	0.005	0.0044	U	0.022	0.004	0.0041	U	0.021	0.004	0.0042	U	0.021	0.004
Phenanthrene	10,000	--		0.0047	U	0.02	0.005	0.054		0.025	0.006	0.047		0.023	0.006	0.027	F2 FL	0.022	0.005	0.023		0.021	0.005	0.023		0.021	0.005
Pyrene	2,200	--		0.0039	U	0.02	0.004	0.097		0.025	0.005	0.065		0.023	0.005	0.012	J F2 FL	0.022	0.004	0.00871	J	0.021	0.004	0.0121	J	0.021	0.004
Inorganics																											
Lead	450	--		7.9		1.5	0.6	130		2.2	0.89	78		1.8	0.7	610		1.5	0.58	270		1.5	0.6	37		1.5	0.62

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	941-Center / 3 / 410-56522-4 / 9/23/2021 / 5.0				1248-P1 / 3 / 410-50151-18 / 8/4/2021 / 3.0				1248-P2 / 3 / 410-50151-15 / 8/4/2021 / 3.0				DUP-1 / 3 / 410-50151-16 / 8/4/2021				1248-P3 / 3 / 410-50151-14 / 8/4/2021 / 3.0				1248-P4 / 3 / 410-50151-13 / 8/4/2021 / 3.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.0009	U	0.011	9E-04	0.00046	U	0.006	5E-04	0.00044	U	0.006	4E-04	0.00047	U	0.006	5E-04	0.00046	U	0.006	5E-04	0.00049	U	0.006	5E-04
1,2-Dichloroethane	0.5	3.9		0.0013	U	0.011	0.001	0.00069	U	0.006	7E-04	0.00066	U	0.006	7E-04	0.00071	U	0.006	7E-04	0.00069	U	0.006	7E-04	0.00074	U	0.006	7E-04
1,3,5-Trimethylbenzene	93	93		0.0011	U	0.011	0.001	0.00058	U	0.006	6E-04	0.00055	U	0.006	6E-04	0.00059	U	0.006	6E-04	0.00057	U	0.006	6E-04	0.00062	U	0.006	6E-04
Toluene	100	44		0.0013	U	0.011	0.001	0.00069	U	0.006	7E-04	0.00066	U	0.006	7E-04	0.00071	U	0.006	7E-04	0.00069	U	0.006	7E-04	0.00074	U	0.006	7E-04
Xylenes, total	1,000	990		0.0031	U	0.022	0.003	0.0016	U	0.012	0.002	0.0015	U	0.011	0.002	0.0017	U	0.012	0.002	0.0016	U	0.011	0.002	0.0017	U	0.012	0.002
Methyl tert-butyl ether	2	1.4		0.0011	U	0.011	0.001	0.00058	U	0.006	6E-04	0.00055	U	0.006	6E-04	0.00059	U	0.006	6E-04	0.00057	U	0.006	6E-04	0.00062	U	0.006	6E-04
Benzene	0.5	0.13		0.0011	U	0.011	0.001	0.00058	U	0.006	6E-04	0.00055	U	0.006	6E-04	0.00059	U	0.006	6E-04	0.00057	U	0.006	6E-04	0.00062	U	0.006	6E-04
Naphthalene	25	25		0.0045	U	0.011	0.005	0.0023	U	0.006	0.002	0.0022	U	0.006	0.002	0.0024	U	0.006	0.002	0.0023	U	0.006	0.002	0.0025	U	0.006	0.003
1,2,4-Trimethylbenzene	300	300		0.0011	U	0.011	0.001	0.00058	U	0.006	6E-04	0.00055	U	0.006	6E-04	0.00059	U	0.006	6E-04	0.00057	U	0.006	6E-04	0.0062	U	0.006	0.006
Isopropylbenzene	2,500	2,500		0.0009	U	0.011	9E-04	0.00046	U	0.006	5E-04	0.00044	U	0.006	4E-04	0.00047	U	0.006	5E-04	0.00046	U	0.006	5E-04	0.00049	U	0.006	5E-04
1,2,-Dibromoethane	0.005	0.0013		0.0009	U	0.011	9E-04	0.00046	U	0.006	5E-04	0.00044	U	0.006	4E-04	0.00047	U	0.006	5E-04	0.00046	U	0.006	5E-04	0.00049	U	0.006	5E-04
Semivolatile Organic Compounds																											
Anthracene	350	--		45		1.1	0.22	0.0039	U	0.02	0.004	0.0036	U	0.018	0.004	0.0038	U	0.019	0.004	0.0039	U	0.019	0.004	0.0038	U	0.019	0.004
Benzo(a)anthracene	130	--		49		1.1	0.22	0.0039	U	0.02	0.004	0.0036	U	0.018	0.004	0.0038	U	0.019	0.004	0.0039	U	0.019	0.004	0.0038	U	0.019	0.004
Benzo(a)pyrene	46	--		35		1.1	0.22	0.0039	U	0.02	0.004	0.0036	U	0.018	0.004	0.0038	U	0.019	0.004	0.0039	U	0.019	0.004	0.0038	U	0.019	0.004
Benzo(b)fluoranthene	76	--		38		1.1	0.22	0.0039	U	0.02	0.004	0.0036	U	0.018	0.004	0.0038	U	0.019	0.004	0.0039	U	0.019	0.004	0.0038	U	0.019	0.004
Benzo(g,h,i)perylene	180	--		17		1.1	0.22	0.0039	U	0.02	0.004	0.0036	U	0.018	0.004	0.0038	U	0.019	0.004	0.0039	U	0.019	0.004	0.0038	U	0.019	0.004
Chrysene	230	--		41		1.1	0.22	0.0039	U	0.02	0.004	0.0036	U	0.018	0.004	0.0038	U	0.019	0.004	0.0039	U	0.019	0.004	0.0038	U	0.019	0.004
Fluorene	3,800	--		24		1.1	0.22	0.0039	U	0.02	0.004	0.0036	U	0.018	0.004	0.0038	U	0.019	0.004	0.0039	U	0.019	0.004	0.0038	U	0.019	0.004
Phenanthrene	10,000	--		150		1.1	0.27	0.0047	U	0.02	0.005	0.0043	U	0.018	0.004	0.0045	U	0.019	0.005	0.0047	U	0.019	0.005	0.0046	U	0.019	0.005
Pyrene	2,200	--		89		1.1	0.22	0.0039	U	0.02	0.004	0.0036	U	0.018	0.004	0.0038	U	0.019	0.004	0.0039	U	0.019	0.004	0.0038	U	0.019	0.004
Inorganics																											
Lead	450	--		560		1.9	0.75	17		1.2	0.49	13		1.2	0.49	15		1.2	0.5	12		1.7	0.67	17		1.2	0.5

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	1248-P5 / 3 / 410-50151-11 / 8/4/2021 / 3.0				1248-Center / 3 / 410-55731-4 / 9/16/2021 / 5.0				DUP-8 / 3 / 410-55731-5 / 9/16/2021 / 5.0				2040-P1 / 3 / 410-50879-23 / 8/11/2021 / 3.0				2040-P2 / 3 / 410-50879-16 / 8/11/2021 / 3.0				2040-P3 / 3 / 410-50879-17 / 8/11/2021 / 3.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.00023	U	0.29	2E-04	0.03	U	0.37	0.03	0.031	U	0.39	0.031	0.00068	U	0.009	7E-04	0.00057	U	0.007	6E-04	0.00042	U	0.005	4E-04
1,2-Dichloroethane	0.5	3.9		0.00035	U	0.29	4E-04	0.045	U	0.37	0.045	0.047	U	0.39	0.047	0.001	U	0.009	0.001	0.00086	U	0.007	9E-04	0.00062	U	0.005	6E-04
1,3,5-Trimethylbenzene	93	93		0.00029	U	0.29	3E-04	0.037	U	0.37	0.037	0.039	U	0.39	0.039	0.00086	U	0.009	9E-04	0.00071	U	0.007	7E-04	0.00052	U	0.005	5E-04
Toluene	100	44		0.00035	U	0.29	4E-04	0.045	U	0.37	0.045	0.047	U	0.39	0.047	0.001	U	0.009	0.001	0.000951	J	0.007	9E-04	0.00062	U	0.005	6E-04
Xylenes, total	1,000	990		0.00081	U	.58-0	8E-04	0.1	U	0.75	0.1	0.11	U	0.79	0.11	0.0024	U	0.017	0.002	0.002	U	0.014	0.002	0.0015	U	0.01	0.002
Methyl tert-butyl ether	2	1.4		0.00029	U	0.29	3E-04	0.037	U	0.37	0.037	0.039	U	0.39	0.039	0.00086	U	0.009	9E-04	0.00071	U	0.007	7E-04	0.00052	U	0.005	5E-04
Benzene	0.5	0.13		0.00029	U	0.29	3E-04	0.037	U	0.37	0.037	0.039	U	0.39	0.039	0.00086	U	0.009	9E-04	0.00131	J	0.007	7E-04	0.00052	U	0.005	5E-04
Naphthalene	25	25		0.12	U	0.29	0.12	0.15	U	0.37	0.15	0.16	U	0.39	0.16	0.0034	U	0.009	0.003	0.0029	U	0.007	0.003	0.0021	U	0.005	0.002
1,2,4-Trimethylbenzene	300	300		0.029	U	0.29	0.029	0.037	U	0.37	0.037	0.039	U	0.39	0.039	0.00086	U	0.009	9E-04	0.00071	U	0.007	7E-04	0.00052	U	0.005	5E-04
Isopropylbenzene	2,500	2,500		0.023	U	0.29	0.023	0.03	U	0.37	0.03	0.031	U	0.39	0.031	0.00068	U	0.009	7E-04	0.00057	U	0.007	6E-04	0.00042	U	0.005	4E-04
1,2,-Dibromoethane	0.005	0.0013		***0.023***	U	0.29	0.023	***0.03***	U	0.37	0.03	***0.031***	U	0.39	0.031	0.00068	U	0.009	7E-04	0.00057	U	0.007	6E-04	0.00042	U	0.005	4E-04
Semivolatile Organic Compounds																											
Anthracene	350	--		0.0037	U	0.019	0.004	0.0045	U	0.023	0.005	0.0047	U	0.023	0.005	0.0111		0.023	0.005	0.0046	U	0.023	0.005	0.0141	J	0.02	0.004
Benzo(a)anthracene	130	--		0.0037	U	0.019	0.004	0.0045	U	0.023	0.005	0.0047	U	0.023	0.005	0.00581		0.023	0.005	0.00711	J	0.023	0.005	0.040		0.02	0.004
Benzo(a)pyrene	46	--		0.0037	U	0.019	0.004	0.0045	U	0.023	0.005	0.0047	U	0.023	0.005	0.00561		0.023	0.005	0.00861	J	0.023	0.005	0.033		0.02	0.004
Benzo(b)fluoranthene	76	--		0.0037	U	0.019	0.004	0.0045	U	0.023	0.005	0.0047	U	0.023	0.005	0.00791		0.023	0.005	0.00891	J	0.023	0.005	0.049		0.02	0.004
Benzo(g,h,i)perylene	180	--		0.0037	U	0.019	0.004	0.0045	U	0.023	0.005	0.0047	U	0.023	0.005	0.00831		0.023	0.005	0.00851	J	0.023	0.005	0.028		0.02	0.004
Chrysene	230	--		0.0037	U	0.019	0.004	0.0045	U	0.023	0.005	0.0047	U	0.023	0.005	0.00751		0.023	0.005	0.00811	J	0.023	0.005	0.046		0.02	0.004
Fluorene	3,800	--		0.0037	U	0.019	0.004	0.0045	U	0.023	0.005	0.0047	U	0.023	0.005	0.0047	U	0.023	0.005	0.0046	U	0.023	0.005	0.00621	J	0.02	0.004
Phenanthrene	10,000	--		0.0045	U	0.019	0.005	0.0055	U	0.023	0.006	0.0056	U	0.023	0.006	0.026		0.023	0.006	0.00601	J	0.023	0.006	0.066		0.02	0.005
Pyrene	2,200	--		0.0037	U	0.019	0.004	0.0045	U	0.023	0.005	0.0047	U	0.023	0.005	0.00791		0.023	0.005	0.0046	U	0.023	0.005	0.070		0.02	0.004
Inorganics																											
Lead	450	--		9.1		1.2	0.48	19		1.8	0.71	16		1.7	0.68	250		1.7	0.68	1,200		1.9	0.75	13		1.3	0.52

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	2040-P4 / 3 / 410-50879-18 / 8/11/2021 / 3.0				2040-P5 / 3 / 410-50879-19 / 8/11/2021 / 3.0				2040-Center / 3 / 410-56522-2 / 9/23/2021 / 5.0				2045-P1 / 3 / 410-50879-8 / 8/10/2021 / 3.0				2045-P2 / 3 / 410-51318-7 / 8/13/2021 / 3.0				2045-P3 / 3 / 410-50879-7 / 8/10/2021 / 3.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.00041	U	0.005	4E-04	0.00076	U	0.009	8E-04	0.00075	U	0.0094	0.00075	0.000731	J	0.008	6E-04	0.00056	U	0.007	0.00056	0.00082	U	0.01	8E-04
1,2-Dichloroethane	0.5	3.9		0.00061	U	0.005	6E-04	0.0011	U	0.009	0.001	0.0011	U	0.0094	0.0011	0.0009	U	0.008	9E-04	0.00084	U	0.007	0.00084	0.0012	U	0.01	0.001
1,3,5-Trimethylbenzene	93	93		0.00051	U	0.005	5E-04	0.00094	U	0.009	9E-04	0.00094	U	0.0094	0.00094	0.00075	U	0.008	8E-04	0.0007	U	0.007	0.0007	0.001	U	0.01	0.001
Toluene	100	44		0.00061	U	0.005	6E-04	0.00511	J	0.009	0.001	0.0011	U	0.0094	0.0011	0.00121	J	0.008	9E-04	0.00331	J	0.007	0.00084	0.00201	J	0.01	0.001
Xylenes, total	1,000	990		0.0014	U	0.01	0.001	0.0026	U	0.019	0.003	0.0026	U	0.019	0.0026	0.00271	J	0.008	0.002	0.002	U	0.014	0.002	0.0029	U	0.02	0.003
Methyl tert-butyl ether	2	1.4		0.00051	U	0.005	5E-04	0.00094	U	0.009	9E-04	0.00094	U	0.0094	0.00094	0.00075	U	0.008	8E-04	0.0007	U	0.007	0.0007	0.001	U	0.01	0.001
Benzene	0.5	0.13		0.00051	U	0.005	5E-04	0.00451	J	0.009	9E-04	0.00094	U	0.0094	0.00094	0.011		0.008	8E-04	0.00141	J	0.007	0.0007	0.00751	J	0.01	0.001
Naphthalene	25	25		0.002	U	0.005	0.002	0.0038	U	0.009	0.004	0.0038	U	0.0094	0.0038	0.003	U	0.008	0.003	0.0028	U	0.007	0.0028	0.0041	U	0.01	0.004
1,2,4-Trimethylbenzene	300	300		0.00051	U	0.005	5E-04	0.00094	U	0.009	9E-04	0.00094	U	0.0094	0.00094	0.00075	U	0.008	8E-04	0.00121	J	0.007	0.0007	0.001	U	0.01	0.001
Isopropylbenzene	2,500	2,500		0.00041	U	0.005	4E-04	0.00076	U	0.009	8E-04	0.00075	U	0.0094	0.00075	0.0006	U	0.008	6E-04	0.00056	U	0.007	0.00056	0.00082	U	0.01	8E-04
1,2,-Dibromoethane	0.005	0.0013		0.00041	U	0.005	4E-04	0.00076	U	0.009	8E-04	0.00075	U	0.0094	0.00075	0.0006	U	0.008	6E-04	0.00056	U	0.007	0.00056	0.00082	U	0.01	8E-04
Semivolatile Organic Compounds																											
Anthracene	350	--		0.00471	J	0.02	0.004	0.022		0.02	0.004	0.0051	U	0.0260	0.0051	0.0181	J	0.023	0.005	0.00871	J	0.024	0.0049	0.005	U	0.023	0.005
Benzo(a)anthracene	130	--		0.0161	J	0.02	0.004	0.026		0.02	0.004	0.0171	J	0.0260	0.0051	0.0045	U	0.023	0.005	0.00851	J	0.024	0.0049	0.00561	J	0.023	0.005
Benzo(a)pyrene	46	--		0.0161	J	0.02	0.004	0.0161	J	0.02	0.004	0.0171	J	0.0260	0.0051	0.00451	J	0.023	0.005	0.0131	J	0.024	0.0049	0.00751	J	0.023	0.005
Benzo(b)fluoranthene	76	--		0.022		0.02	0.004	0.036		0.02	0.004	0.0181	J	0.0260	0.0051	0.00531	J	0.023	0.005	0.0211	J	0.024	0.0049	0.00571	J	0.023	0.005
Benzo(g,h,i)perylene	180	--		0.0161	J	0.02	0.004	0.0191	J	0.02	0.004	0.00861	J	0.0260	0.0051	0.00891	J	0.023	0.005	0.0131	J	0.024	0.0049	0.00591	J	0.023	0.005
Chrysene	230	--		0.027		0.02	0.004	0.120		0.02	0.004	35		0.0260	0.0051	0.00531	J	0.023	0.005	0.0191	J	0.024	0.0049	0.00931	J	0.023	0.005
Fluorene	3,800	--		0.00390	U	0.02	0.004	0.0161	J	0.02	0.004	0.0051	U	0.0260	0.0051	0.0045	U	0.023	0.005	0.03		0.024	0.0049	0.005	U	0.023	0.005
Phenanthrene	10,000	--		0.055		0.02	0.005	0.120		0.02	0.005	0.0171	J	0.0260	0.0061	0.023		0.023	0.005	0.064		0.024	0.0058	0.028		0.023	0.006
Pyrene	2,200	--		0.022		0.02	0.004	0.041		0.02	0.004	0.0221	J	0.0260	0.0051	0.0045	U	0.023	0.005	0.03		0.024	0.0049	0.005	U	0.023	0.005
Inorganics																											
Lead	450	--		40		1.2	0.5	21		1.3	0.54	24		2.2	0.86	100		1.8	0.71	29		2.2	0.87	14		1.4	0.57

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID Area Laboratory ID Collection Date Sample Depth	2045-P4 3 410-51318-8 8/13/2021 3.0				2045-P5 3 410-51318-9 8/13/2021 3.0				2045-Center 3 410-56522-3 9/23/2021 5.0				4847-P1 3 410-50151-4 8/5/2021 3.0				4847-P2 3 410-50151-4 8/5/2021 3.0				4847-P3 3 410-50151-5 8/5/2021 3.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.0661	J	0.69	0.055	0.67		0.59	0.047	0.00065	U	0.008	7E-04	0.00045	U	0.006	5E-04	0.0041	U	0.0051	0.0041	0.00039	U	0.005	4E-04
1,2-Dichloroethane	0.5	3.9		0.082	U	0.69	0.082	0.071		0.59	0.071	0.00098	U	0.008	1E-03	0.00068	U	0.006	7E-04	0.00061	U	0.0051	0.00061	0.00059	U	0.005	6E-04
1,3,5-Trimethylbenzene	93	93		0.2301	J	0.69	0.069	15		0.59	0.059	0.00082	U	0.008	8E-04	0.00057	U	0.006	6E-04	0.00051	U	0.0051	0.00051	0.00049	U	0.005	5E-04
Toluene	100	44		0.082	U	0.69	0.082	0.071		0.59	0.071	0.00098	U	0.008	1E-03	0.00068	U	0.006	7E-04	0.00061	U	0.0051	0.00061	0.00059	U	0.005	6E-04
Xylenes, total	1,000	990		0.3701	J	1.4	0.19	6.8		1.2	0.17	0.0023	U	0.016	0.002	0.0016	U	0.011	0.002	0.0014	U	0.01	0.0014	0.0014	U	0.01	0.001
Methyl tert-butyl ether	2	1.4		0.069	U	0.69	0.069	0.059		0.59	0.059	0.00082	U	0.008	8E-04	0.00057	U	0.006	6E-04	0.00051	U	0.0051	0.00051	0.00049	U	0.005	5E-04
Benzene	0.5	0.13		0.069	U	0.69	0.069	0.059		0.59	0.059	0.00082	U	0.008	8E-04	0.00057	U	0.006	6E-04	0.00051	U	0.0051	0.00051	0.00049	U	0.005	5E-04
Naphthalene	25	25		0.27	U	0.69	0.27	13		0.59	0.24	0.0033	U	0.008	0.003	0.0023	U	0.006	0.002	0.002	U	0.0051	0.002	0.002	U	0.005	0.002
1,2,4-Trimethylbenzene	300	300		0.5201	J	0.69	0.069	33.0		5.9	0.59	0.00082	U	0.008	8E-04	0.00057	U	0.006	6E-04	0.00051	U	0.0051	0.00051	0.00049	U	0.005	5E-04
Isopropylbenzene	2,500	2,500		0.055	U	0.69	0.055	1.5		0.59	0.047	0.00065	U	0.008	7E-04	0.00045	U	0.006	5E-04	0.0041	U	0.0051	0.0041	0.00039	U	0.005	4E-04
1,2,-Dibromoethane	0.005	0.0013		***0.055***	U	0.69	0.055	0.047		0.59	0.047	0.00065	U	0.008	7E-04	0.00045	U	0.006	5E-04	0.0041	U	0.0051	0.0041	0.00039	U	0.005	4E-04
Semivolatile Organic Compounds																											
Anthracene	350	--		0.006	U	0.03	0.006	0.00570	U	0.028	0.00570	0.0049	U	0.025	0.005	0.0037	U	0.019	0.004	0.0041	U	0.02	0.0041	0.0037	U	0.019	0.004
Benzo(a)anthracene	130	--		0.00991	J	0.03	0.006	0.0111	J	0.028	0.00570	0.0049	U	0.025	0.005	0.00481	J	0.019	0.004	0.00581	J	0.02	0.0041	0.0037	U	0.019	0.004
Benzo(a)pyrene	46	--		0.006	U	0.03	0.006	0.00570	U	0.028	0.00570	0.0049	U	0.025	0.005	0.00441	J	0.019	0.004	0.00611	J	0.02	0.0041	0.0037	U	0.019	0.004
Benzo(b)fluoranthene	76	--		0.00961	J	0.03	0.006	0.00801	J	0.028	0.00570	0.0049	U	0.025	0.005	0.00541	J	0.019	0.004	0.00641	J	0.02	0.0041	0.0037	U	0.019	0.004
Benzo(g,h,i)perylene	180	--		0.00831	J	0.03	0.006	0.00570	U	0.028	0.00570	0.0049	U	0.025	0.005	0.0037	U	0.019	0.004	0.00410	U	0.02	0.0041	0.0037	U	0.019	0.004
Chrysene	230	--		0.033		0.03	0.006	0.037		0.028	0.00570	0.0049	U	0.025	0.005	0.00461	J	0.019	0.004	0.00641	J	0.02	0.0041	0.0037	U	0.019	0.004
Fluorene	3,800	--		0.006	U	0.03	0.006	0.52		0.028	0.00570	0.0049	U	0.025	0.005	0.0037	U	0.019	0.004	0.00511	J	0.02	0.0041	0.0037	U	0.019	0.004
Phenanthrene	10,000	--		0.007	U	0.03	0.007	5		0.028	0.00680	0.00741	J	0.025	0.006	0.0045	U	0.019	0.005	0.0121	J	0.02	0.0049	0.0045	U	0.019	0.005
Pyrene	2,200	--		0.41		0.03	0.006	0.47		0.028	0.00570	0.0049	U	0.025	0.005	0.00681	J	0.019	0.004	0.0141	J	0.02	0.0041	0.0037	U	0.019	0.004
Inorganics																											
Lead	450	--		75		2.2	0.88	210		1.9	0.78	6.7		1.9	0.74	15		1.2	0.49	15		1,6	0.63	8.5		1.2	0.48

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	4847-P4 / 3 / 410-50879-22 / 8/11/2021 / 3.0				4847-P5 / 3 / 410-56522-1 / 9/23/2021 / 3.0				4847-P6 / 3 / 410-50151-1 / 8/5/2021 / 3.0				4847-Center / 3 / 410-55731-7 / 9/16/2021 / 5.0				4847-East / 3 / 410-55731-6 / 9/16/2021 / 5.0				4847-West / 3 / 410-55731-8 / 9/16/2021 / 5.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.00041	U	0.005	4E-04	0.00067	U	0.008	7E-04	0.00052	U	0.006	5E-04	0.027	U	0.33	0.027	0.0004	U	0.005	4E-04	0.00051	U	0.006	5E-04
1,2-Dichloroethane	0.5	3.9		0.00062	U	0.005	6E-04	0.001	U	0.008	0.001	0.00077	U	0.006	8E-04	0.04	U	0.33	0.04	0.00059	U	0.005	6E-04	0.00076	U	0.006	8E-04
1,3,5-Trimethylbenzene	93	93		0.00052	U	0.005	5E-04	0.00084	U	0.008	8E-04	0.00064	U	0.006	6E-04	0.033	U	0.33	0.033	0.0005	U	0.005	5E-04	0.00064	U	0.006	6E-04
Toluene	100	44		0.00062	U	0.005	6E-04	0.001	U	0.008	0.001	0.00077	U	0.006	8E-04	0.04	U	0.33	0.04	0.00059	U	0.005	6E-04	0.00076	U	0.006	8E-04
Xylenes, total	1,000	990		0.0014	U	0.01	0.001	0.0024	U	0.017	0.002	0.0018	U	0.013	0.002	0.093	U	0.67	0.093	0.0014	U	0.01	0.001	0.0018	U	0.013	0.002
Methyl tert-butyl ether	2	1.4		0.00052	U	0.005	5E-04	0.00084	U	0.008	8E-04	0.00064	U	0.006	6E-04	0.033	U	0.33	0.033	0.0005	U	0.005	5E-04	0.00064	U	0.006	6E-04
Benzene	0.5	0.13		0.00052	U	0.005	5E-04	0.00084	U	0.008	8E-04	0.00064	U	0.006	6E-04	0.033	U	0.33	0.033	0.0005	U	0.005	5E-04	0.00064	U	0.006	6E-04
Naphthalene	25	25		0.0021	U	0.005	0.002	0.0034	U	0.008	0.003	0.0026	U	0.006	0.003	0.13	U	0.33	0.13	0.002	U	0.005	0.002	0.0025	U	0.006	0.003
1,2,4-Trimethylbenzene	300	300		0.00052	U	0.005	5E-04	0.00084	U	0.008	8E-04	0.00064	U	0.006	6E-04	0.033	U	0.33	0.033	0.0005	U	0.005	5E-04	0.00064	U	0.006	6E-04
Isopropylbenzene	2,500	2,500		0.00041	U	0.005	4E-04	0.00067	U	0.008	7E-04	0.00052	U	0.006	5E-04	0.027	U	0.33	0.027	0.0004	U	0.005	4E-04	0.00051	U	0.006	5E-04
1,2,-Dibromoethane	0.005	0.0013		0.00041	U	0.005	4E-04	0.00067	U	0.008	7E-04	0.00052	U	0.006	5E-04	***0.027***	U	0.33	0.027	0.0004	U	0.005	4E-04	0.00051	U	0.006	5E-04
Semivolatile Organic Compounds																											
Anthracene	350	--		0.0044	U	0.022	0.004	0.0048	U	0.024	0.005	0.0045	U	0.023	0.005	0.0039	U	0.019	0.004	0.0039	U	0.02	0.004	0.0037	U	0.019	0.004
Benzo(a)anthracene	130	--		0.0044	U	0.022	0.004	0.0048	U	0.024	0.005	0.0045	U	0.023	0.005	0.0039	U	0.019	0.004	0.0039	U	0.02	0.004	0.0037	U	0.019	0.004
Benzo(a)pyrene	46	--		0.0044	U	0.022	0.004	0.0048	U	0.024	0.005	0.0045	U	0.023	0.005	0.0039	U	0.019	0.004	0.0039	U	0.02	0.004	0.0037	U	0.019	0.004
Benzo(b)fluoranthene	76	--		0.0044	U	0.022	0.004	0.0048	U	0.024	0.005	0.0045	U	0.023	0.005	0.0039	U	0.019	0.004	0.0039	U	0.02	0.004	0.0037	U	0.019	0.004
Benzo(g,h,i)perylene	180	--		0.0044	U	0.022	0.004	0.0048	U	0.024	0.005	0.0045	U	0.023	0.005	0.0039	U	0.019	0.004	0.0039	U	0.02	0.004	0.0037	U	0.019	0.004
Chrysene	230	--		0.0044	U	0.022	0.004	0.0048	U	0.024	0.005	0.0045	U	0.023	0.005	0.0039	U	0.019	0.004	0.0039	U	0.02	0.004	0.0037	U	0.019	0.004
Fluorene	3,800	--		0.0044	U	0.022	0.004	0.0048	U	0.024	0.005	0.0045	U	0.023	0.005	0.0039	U	0.019	0.004	0.0039	U	0.02	0.004	0.0037	U	0.019	0.004
Phenanthrene	10,000	--		0.0044	U	0.022	0.005	0.0057	U	0.024	0.006	0.0045	U	0.023	0.005	0.0046	U	0.019	0.005	0.0047	U	0.02	0.005	0.0045	U	0.019	0.005
Pyrene	2,200	--		0.00511	J	0.022	0.004	0.0048	U	0.024	0.005	0.0045	U	0.023	0.005	0.0039	U	0.019	0.004	0.0039	U	0.02	0.004	0.0037	U	0.019	0.004
Inorganics																											
Lead	450	--		3.6		1.4	0.56	12		1.8	0.71	2.9		1.7	0.69	12		1.5	0.59	17		1.5	0.6	18		1.2	0.48

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	Pipe 1 / 3 / 410-50151-17 / 8/4/2021 / 2.0				Pipe 2 / 3 / 410-50151-19 / 8/4/2021 / 2.0				Pipe 3 / 3 / 410-50151-20 / 8/4/2021 / 2.0				Pipe 4 / 3 / 410-51060-5 / 8/11/2021 / 2.0				Pipe 5 / 3 / 410-50151-21 / 8/4/2021 / 2.0				Pipe 6 / 3 / 410-50151-24 / 8/4/2021 / 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																													
Ethylbenzene	70	46		0.00044	U	0.006	4E-04	0.00018	U	0.002	2E-04	0.00046	U	0.006	5E-04	0.00043	U	0.005	4E-04	0.026	U	0.33	0.026	0.00047	U	0.006	5E-04
1,2-Dichloroethane	0.5	3.9		0.00066	U	0.006	7E-04	0.00028	U	0.002	3E-04	0.00069	U	0.006	7E-04	0.00065	U	0.005	7E-04	0.039	U	0.33	0.039	0.00071	U	0.006	7E-04
1,3,5-Trimethylbenzene	93	93		0.00055	U	0.006	6E-04	0.00023	U	0.002	2E-04	0.00058	U	0.006	6E-04	0.00054	U	0.005	5E-04	0.033	U	0.33	0.033	0.00059	U	0.006	6E-04
Toluene	100	44		0.00066	U	0.006	7E-04	0.00028	U	0.002	3E-04	0.00069	U	0.006	7E-04	0.00065	U	0.005	7E-04	0.039	U	0.33	0.039	0.00071	U	0.006	7E-04
Xylenes, total	1,000	990		0.0015	U	0.011	0.002	0.00064	U	0.005	6E-04	0.0016	U	0.012	0.002	0.0015	U	0.011	0.002	0.091	U	0.65	0.091	0.0017	U	0.012	0.002
Methyl tert-butyl ether	2	1.4		0.00055	U	0.006	6E-04	0.00023	U	0.002	2E-04	0.00058	U	0.006	6E-04	0.00054	U	0.005	5E-04	0.033	U	0.33	0.033	0.00059	U	0.006	6E-04
Benzene	0.5	0.13		0.00055	U	0.006	6E-04	0.00023	U	0.002	2E-04	0.00058	U	0.006	6E-04	0.00054	U	0.005	5E-04	0.033	U	0.33	0.033	0.00059	U	0.006	6E-04
Naphthalene	25	25		0.0022	U	0.006	0.002	0.00092	U	0.002	9E-04	0.0023	U	0.006	0.002	0.0022	U	0.005	0.002	0.13	U	0.33	0.13	0.0024	U	0.006	0.002
1,2,4-Trimethylbenzene	300	300		0.00055	U	0.006	6E-04	0.00023	U	0.002	2E-04	0.00058	U	0.006	6E-04	0.00054	U	0.005	5E-04	0.033	U	0.33	0.033	0.00059	U	0.006	6E-04
Isopropylbenzene	2,500	2,500		0.00044	U	0.006	4E-04	0.00018	U	0.002	2E-04	0.00046	U	0.006	5E-04	0.00043	U	0.005	4E-04	0.026	U	0.33	0.026	0.00047	U	0.006	5E-04
1,2,-Dibromoethane	0.005	0.0013		0.00044	U	0.006	4E-04	0.00018	U	0.002	2E-04	0.00046	U	0.006	5E-04	0.00043	U	0.005	4E-04	***0.026***	U	0.33	0.026	0.00047	U	0.006	5E-04
Semivolatile Organic Compounds																													
Anthracene	350	--		0.00037	U	0.019	4E-04	0.030		0.019	0.004	0.0043	U	0.022	0.004	0.0036	U	0.018	0.004	0.037	U	0.019	0.037	0.0039	U	0.019	0.004
Benzo(a)anthracene	130	--		0.00037	U	0.019	4E-04	0.250		0.019	0.004	0.0043	U	0.022	0.004	0.0036	U	0.018	0.004	0.037	U	0.019	0.037	0.00891	J	0.019	0.004
Benzo(a)pyrene	46	--		0.00037	U	0.019	4E-04	0.220		0.019	0.004	0.0043	U	0.022	0.004	0.0036	U	0.018	0.004	0.037	U	0.019	0.037	0.0111	J	0.019	0.004
Benzo(b)fluoranthene	76	--		0.00037	U	0.019	4E-04	0.370		0.019	0.004	0.0043	U	0.022	0.004	0.0036	U	0.018	0.004	0.037	U	0.019	0.037	0.0141	J	0.019	0.004
Benzo(g,h,i)perylene	180	--		0.00037	U	0.019	4E-04	0.180		0.019	0.004	0.0043	U	0.022	0.004	0.0036	U	0.018	0.004	0.037	U	0.019	0.037	0.00841	J	0.019	0.004
Chrysene	230	--		0.00037	U	0.019	4E-04	0.300		0.019	0.004	0.00561	J	0.022	0.004	0.0036	U	0.018	0.004	0.037	U	0.019	0.037	0.0111	J	0.019	0.004
Fluorene	3,800	--		0.00037	U	0.019	4E-04	0.0121	J	0.019	0.004	0.0043	U	0.022	0.004	0.0036	U	0.018	0.004	0.037	U	0.019	0.037	0.0039	U	0.019	0.004
Phenanthrene	10,000	--		0.00045	U	0.019	5E-04	0.097		0.019	0.005	0.0052	U	0.022	0.005	0.0044	U	0.018	0.004	0.044	U	0.019	0.044	0.0161	J	0.019	0.005
Pyrene	2,200	--		0.00037	U	0.019	4E-04	0.410		0.019	0.004	0.051		0.022	0.004	0.00411	J	0.018	0.004	0.037	U	0.019	0.037	0.0171	J	0.019	0.004
Inorganics																													
Lead	450	--		13		1.3	0.5	25		1.2	0.49	19		1.4	0.56	14		1.1	0.45	11		1.5	0.61	14		1.5	0.58

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	Pipe 7 / 3 / 410-50151-22 / 8/4/2021 / 2.0				Pipe 8 / 3 / 410-50151-23 / 8/4/2021 / 2.0				Pipe 9 / 3 / 410-50151-26 / 8/4/2021 / 2.0				Pipe 10 / 3 / 410-50151-25 / 8/4/2021 / 2.0				Pipe 11 / 3 / 410-50151-10 / 8/4/2021 / 2.0				Pipe 12 / 3 / 410-50151-27 / 8/4/2021 / 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																													
Ethylbenzene	70	46		20		0.34	0.027	44		0.34	0.54	5.60		0.29	0.023	4.60		0.32	0.026	0.00044	U	0.006	4E-04	0.3201	J	0.36	0.029
1,2-Dichloroethane	0.5	3.9		0.041	U	0.34	0.041	0.04	U	0.34	0.04	0.035	U	0.29	0.035	0.039	U	0.32	0.039	0.00067	U	0.006	7E-04	0.044	U	0.36	0.044
1,3,5-Trimethylbenzene	93	93		3.10		0.34	0.034	9.40		0.34	0.034	0.0841	J	0.29	0.029	0.0691	J	0.32	0.032	0.00055	U	0.006	6E-04	1.10		0.36	0.036
Toluene	100	44		0.0991	J	0.34	0.041	0.0971	J	0.34	0.04	0.035	U	0.29	0.035	0.0431	J	0.32	0.039	0.00067	U	0.006	7E-04	0.044	U	0.36	0.044
Xylenes, total	1,000	990		21		0.68	0.095	23		0.67	0.094	0.3601	J	0.58	0.081	0.1401	J	0.65	0.091	0.0016	U	0.011	0.002	0.940		0.73	0.1
Methyl tert-butyl ether	2	1.4		0.034	U	0.34	0.034	0.034	U	0.34	0.034	0.029	U	0.29	0.029	0.032	U	0.32	0.032	0.00055	U	0.006	6E-04	0.036	U	0.36	0.036
Benzene	0.5	0.13		0.0581	J	0.34	0.034	0.0371	J	0.34	0.034	0.029	U	0.29	0.029	0.032	U	0.32	0.032	0.00055	U	0.006	6E-04	0.036	U	0.36	0.036
Naphthalene	25	25		11		0.34	0.14	11		0.34	0.13	2.50		0.29	0.12	0.2301	J	0.32	0.13	0.0022	U	0.006	0.002	1.20		0.36	0.15
1,2,4-Trimethylbenzene	300	300		150		6.8	0.68	150		0.34	0.027	0.2601	J	0.29	0.029	0.810		0.32	0.032	0.00055	U	0.006	6E-04	2.70		0.36	0.036
Isopropylbenzene	2,500	2,500		7.3		0.34	0.027	6.3		0.34	0.67	2.10		0.29	0.023	4.30		0.32	0.026	0.00044	U	0.006	4E-04	0.2601	J	0.36	0.029
1,2,-Dibromoethane	0.005	0.0013		***0.027***	U	0.34	0.027	***0.027***	U	0.34	0.027	***0.023***	U	0.29	0.023	***0.026***	U	0.32	0.026	0.00044	U	0.006	4E-04	***0.029***	U	0.36	0.029
Semivolatile Organic Compounds																													
Anthracene	350	--		0.0039	U	0.019	0.004	0.450	FL F2	0.019	0.004	0.230		0.018	0.004	0.360		0.019	0.004	0.0038	U	0.019	0.004	0.220		0.019	0.004
Benzo(a)anthracene	130	--		0.00831	J	0.019	0.004	0.0099	J FL F2	0.019	0.004	0.0141	J	0.018	0.004	0.00821	J	0.019	0.004	0.0038	U	0.019	0.004	0.00891		0.019	0.004
Benzo(a)pyrene	46	--		0.0039	U	0.019	0.004	0.0042	J FL F2	0.019	0.004	0.0121	J	0.018	0.004	0.00541	J	0.019	0.004	0.0038	U	0.019	0.004	0.0111		0.019	0.004
Benzo(b)fluoranthene	76	--		0.0039	U	0.019	0.004	0.0041	J FL F2	0.019	0.004	0.0141	J	0.018	0.004	0.00481	J	0.019	0.004	0.0038	U	0.019	0.004	0.0171		0.019	0.004
Benzo(g,h,i)perylene	180	--		0.0039	U	0.019	0.004	0.0038	U	0.019	0.004	0.0111	J	0.018	0.004	0.00451	J	0.019	0.004	0.0038	U	0.019	0.004	0.0111		0.019	0.004
Chrysene	230	--		0.0131	J	0.019	0.004	0.016	J FL F2	0.019	0.004	0.019		0.018	0.004	0.0151	J	0.019	0.004	0.0038	U	0.019	0.004	0.0171		0.019	0.004
Fluorene	3,800	--		1.10		0.019	0.004	1.50	FL F2	0.019	0.004	0.870		0.018	0.004	1.70		0.019	0.004	0.0038	U	0.019	0.004	0.540		0.019	0.004
Phenanthrene	10,000	--		1.90		0.019	0.005	3.40	FL F2	0.019	0.005	1.40		0.018	0.004	2.50		0.019	0.005	0.0045	U	0.019	0.005	0.410		0.019	0.005
Pyrene	2,200	--		0.200		0.019	0.004	0.310	FL F2	0.019	0.004	0.140		0.018	0.004	0.230		0.019	0.004	0.0038	U	0.019	0.004	0.330		0.019	0.004
Inorganics																													
Lead	450	--		9.3		1.3	0.53	13		1.4	0.57	15		1.4	0.55	32		1.4	0.57	13		1.5	0.59	13		1.3	0.53

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	Pipe 13 / 3 / 410-50151-28 / 8/4/2021 / 2.0				Pipe 14 / 3 / 410-50151-12 / 8/4/2021 / 2.0				Pipe 15 / 3 / 410-50151-2 / 8/5/2021 / 2.0				Pipe 16 / 3 / 410-50151-30 / 8/4/2021 / 2.0				Pipe 17 / 3 / 410-50151-29 / 8/4/2021 / 2.0				Pipe 18 / 3 / 410-50672-12 / 8/10/2021 / 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																												
Ethylbenzene	70	46		2.30		0.31	0.025	0.00051	U	0.006	5E-04	0.00043	U	0.005	4E-04	0.00046	U	0.006	5E-04	0.021	U	0.27	0.021	0.00081	U	0.01	8E-04
1,2-Dichloroethane	0.5	3.9		0.037	U	0.31	0.037	0.00077	U	0.006	8E-04	0.00064	U	0.005	6E-04	0.00069	U	0.006	7E-04	0.032	U	0.27	0.032	0.0012	U	0.01	0.001
1,3,5-Trimethylbenzene	93	93		0.031	U	0.31	0.031	0.00171	J	0.006	6E-04	0.00053	U	0.005	5E-04	0.00057	U	0.006	6E-04	0.027	U	0.27	0.027	0.001	U	0.01	0.001
Toluene	100	44		0.037	U	0.31	0.037	0.00077	U	0.006	8E-04	0.00064	U	0.005	6E-04	0.00069	U	0.006	7E-04	0.032	U	0.27	0.032	0.00131	J	0.01	0.001
Xylenes, total	1,000	990		0.087	U	0.62	0.087	0.0018	U	0.013	0.002	0.0015	U	0.011	0.002	0.0016	U	0.011	0.002	0.075	U	0.54	0.075	0.0028	U	0.02	0.003
Methyl tert-butyl ether	2	1.4		0.031	U	0.31	0.031	0.00064	U	0.006	6E-04	0.00053	U	0.005	5E-04	0.00057	U	0.006	6E-04	0.027	U	0.27	0.027	0.001	U	0.01	0.001
Benzene	0.5	0.13		0.031	U	0.31	0.031	0.00064	U	0.006	6E-04	0.00053	U	0.005	5E-04	0.00057	U	0.006	6E-04	0.027	U	0.27	0.027	0.00281	J	0.01	0.001
Naphthalene	25	25		2.90		0.31	0.12	0.0026	U	0.006	0.003	0.0021	U	0.005	0.002	0.0023	U	0.006	0.002	0.11	U	0.27	0.11	0.004	U	0.01	0.004
1,2,4-Trimethylbenzene	300	300		0.0901	J	0.31	0.031	0.00251	J	0.006	6E-04	0.00053	U	0.005	5E-04	0.00057	U	0.006	6E-04	0.0271	J	0.27	0.027	0.001	U	0.01	0.001
Isopropylbenzene	2,500	2,500		3.60		0.31	0.025	0.000591	J	0.006	5E-04	0.00043	U	0.005	4E-04	0.00046	U	0.006	5E-04	0.021	U	0.27	0.021	0.00081	U	0.01	8E-04
1,2,-Dibromoethane	0.005	0.0013		0.025	U	0.31	0.025	0.00051	U	0.006	5E-04	0.00043	U	0.005	4E-04	0.00046	U	0.006	5E-04	***0.021***	U	0.27	0.021	0.00081	U	0.01	8E-04
Semivolatile Organic Compounds																												
Anthracene	350	--		0.190		0.018	0.004	0.0039	U	0.019	0.004	0.0039	U	0.019	0.004	0.004	U	0.02	0.004	0.0111	J	0.02	0.004	0.0045	U	0.022	0.005
Benzo(a)anthracene	130	--		0.00621	J	0.018	0.004	0.0039	U	0.019	0.004	0.00641	J	0.019	0.004	0.004	U	0.02	0.004	0.0161	J	0.02	0.004	0.0045	U	0.022	0.005
Benzo(a)pyrene	46	--		0.00371	J	0.018	0.004	0.0039	U	0.019	0.004	0.00441	J	0.019	0.004	0.00451	J	0.02	0.004	0.0151	J	0.02	0.004	0.0045	U	0.022	0.005
Benzo(b)fluoranthene	76	--		0.0037	U	0.018	0.004	0.0039	U	0.019	0.004	0.00671	J	0.019	0.004	0.004	U	0.02	0.004	0.023		0.02	0.004	0.00571	J	0.022	0.005
Benzo(g,h,i)perylene	180	--		0.00551	J	0.018	0.004	0.0039	U	0.019	0.004	0.00431	J	0.019	0.004	0.004	U	0.02	0.004	0.0141	J	0.02	0.004	0.00451	J	0.022	0.005
Chrysene	230	--		0.0111	J	0.018	0.004	0.0039	U	0.019	0.004	0.00451	J	0.019	0.004	0.004	U	0.02	0.004	0.026		0.02	0.004	0.0131	J	0.022	0.005
Fluorene	3,800	--		0.780		0.018	0.004	0.0039	U	0.019	0.004	0.0039	U	0.019	0.004	0.004	U	0.02	0.004	0.0111	J	0.02	0.004	0.0045	U	0.022	0.005
Phenanthrene	10,000	--		1.30		0.018	0.004	0.0047	U	0.019	0.005	0.0046	U	0.019	0.005	0.0048	U	0.02	0.005	0.031		0.02	0.005	0.029		0.022	0.005
Pyrene	2,200	--		0.180		0.018	0.004	0.00951	J	0.019	0.004	0.00921	J	0.019	0.004	0.004	U	0.02	0.004	0.022		0.02	0.004	0.00961	J	0.022	0.005
Inorganics																												
Lead	450	--		12		1.2	0.49	8.9		1.2	0.47	11	FL F2	1.7	0.69	4.0		1.4	0.54	16		1.7	0.66	120		1.9	0.76

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	Pipe 19 / 3 / 410-50672-10 / 8/10/2021 / 2.0				Pipe 20 / 3 / 410-50672-17 / 8/10/2021 / 2.0				Pipe 21 / 3 / 410-50672-18 / 8/10/2021 / 2.0				Pipe 22 / 3 / 410-50672-19 / 8/10/2021 / 2.0				Pipe 23 / 3 / 410-50672-13 / 8/10/2021 / 2.0				Pipe 24 / 3 / 410-50672-14 / 8/10/2021 / 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.00071	U	0.009	7E-04	0.00075	U	0.009	8E-04	0.00071	U	0.009	7E-04	0.039	U	0.48	0.039	0.00079	U	0.01	8E-04	0.00068	U	0.009	7E-04
1,2-Dichloroethane	0.5	3.9		0.00271	J	0.009	0.001	0.0011	U	0.009	0.001	0.0011	U	0.009	0.001	0.058	U	0.48	0.058	0.00301	J	0.01	0.001	0.00311	J	0.009	0.001
1,3,5-Trimethylbenzene	93	93		0.00401	J	0.009	9E-04	0.00093	U	0.009	9E-04	0.00089	U	0.009	9E-04	0.0511	J	0.48	0.048	0.00099	U	0.01	1E-03	0.00191	J	0.009	9E-04
Toluene	100	44		0.031		0.009	0.001	0.00401	J	0.009		0.0011	U	0.009	0.001	0.0611	J	0.48	0.058	0.025		0.01	0.001	0.020		0.009	0.001
Xylenes, total	1,000	990		0.028		0.018	0.003	0.0026	U	0.019	0.003	0.0025	U	0.018	0.003	0.1701	J	0.97	0.14	0.00951	J	0.01	0.003	0.0131	J	0.017	0.002
Methyl tert-butyl ether	2	1.4		0.00089	U	0.009	9E-04	0.00093	U	0.009	9E-04	0.00089	U	0.009	9E-04	0.048	U	0.48	0.048	0.00099	U	0.01	1E-03	0.00085	U	0.009	9E-04
Benzene	0.5	0.13		0.027		0.009	9E-04	0.00371	J	0.009		0.00089	U	0.009	9E-04	0.048	U	0.48	0.048	0.014	J	0.01	1E-03	0.00831	J	0.009	9E-04
Naphthalene	25	25		0.0036	U	0.009	0.004	0.0037	U	0.009	0.004	0.0036	U	0.009	0.004	0.19	U	0.48	0.19	0.0039	U	0.01	0.004	0.0034	U	0.009	0.003
1,2,4-Trimethylbenzene	300	300		0.00531	J	0.009	7E-04	0.00093	U	0.009	9E-04	0.00089	U	0.009	9E-04	0.0991	J	0.48	0.048	0.00141		0.01	1E-03	0.00331	J	0.009	9E-04
Isopropylbenzene	2,500	2,500		0.00071	U	0.009	7E-04	0.00075	U	0.009	8E-04	0.00071	U	0.009	7E-04	0.039	U	0.48	0.039	0.00079	U	0.01	8E-04	0.00068	U	0.009	7E-04
1,2,-Dibromoethane	0.005	0.0013		0.00071	U	0.009	7E-04	0.00075	U	0.009	8E-04	***0.0071***	U	0.009	0.007	***0.039***	U	0.48	0.039	0.00079	U	0.01	8E-04	0.00068	U	0.009	7E-04
Semivolatile Organic Compounds																											
Anthracene	350	--		0.0101	J	0.022	0.004	0.0044	U	0.02	0.004	0.0047	U	0.024	0.005	0.022		0.022	0.004	0.00481	J	0.021	0.004	0.00991	J	0.023	0.005
Benzo(a)anthracene	130	--		0.00511	J	0.022	0.004	0.00911	J	0.02	0.004	0.0047	U	0.024	0.005	0.035		0.022	0.004	0.00901	J	0.021	0.004	0.00531	J	0.023	0.005
Benzo(a)pyrene	46	--		0.00491	J	0.022	0.004	0.00571	J	0.02	0.004	0.0047	U	0.024	0.005	0.033		0.022	0.004	0.00701	J	0.021	0.004	0.0046	U	0.023	0.005
Benzo(b)fluoranthene	76	--		0.00631	J	0.022	0.004	0.0141	J	0.02	0.004	0.0047	U	0.024	0.005	0.041		0.022	0.004	0.029		0.021	0.004	0.0046	U	0.023	0.005
Benzo(g,h,i)perylene	180	--		0.00731	J	0.022	0.004	0.00711	J	0.02	0.004	0.0047	U	0.024	0.005	0.038		0.022	0.004	0.0201	J	0.021	0.004	0.0046	U	0.023	0.005
Chrysene	230	--		0.00521	J	0.022	0.004	0.0111	J	0.02	0.004	0.0047	U	0.024	0.005	0.052		0.022	0.004	0.025		0.021	0.004	0.00851	J	0.023	0.005
Fluorene	3,800	--		0.0044	U	0.022	0.004	0.0044	U	0.02	0.004	0.0047	U	0.024	0.005	0.0111	J	0.022	0.004	0.0042	U	0.021	0.004	0.0141	J	0.023	0.005
Phenanthrene	10,000	--		0.058		0.022	0.005	0.0101	J	0.02	0.005	0.0231	J	0.024	0.006	0.050		0.022	0.005	0.024		0.021	0.005	0.040		0.023	0.006
Pyrene	2,200	--		0.0141	J	0.022	0.004	0.00981	J	0.02	0.004	0.0047	U	0.024	0.005	0.042		0.022	0.004	0.00641	J	0.021	0.004	0.0191	J	0.023	0.005
Inorganics																											
Lead	450	--		260		2	0.79	66		2	0.78	28		2	0.79	1,100		1.7	0.7	130		1.9	0.75	210		1.8	0.74

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	Pipe 25 / 3 / 410-50672-15 / 8/10/2021 / 2.0				Pipe 26 / 3 / 410-50879-21 / 8/11/2021 / 2.0				Pipe 27 / 3 / 410-51060-1 / 8/11/2021 / 2.0				Pipe 28 / 3 / 410-50879-24 / 8/11/2021 / 2.0				Pipe 29 / 3 / 410-51060-2 / 8/11/2021 / 2.0				DUP-7 / 3 / 410-51060-3 / 8/11/2021			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.0008	U	0.01	8E-04	0.00063	U	0.008	6E-04	0.061	U	0.77	0.061	0.00074	U	0.009	7E-04	1.0		0.59	0.047	1.6		0.67	0.053
1,2-Dichloroethane	0.5	3.9		0.0012	U	0.01	0.001	0.00095	U	0.008	1E-03	0.092	U	0.77	0.092	0.0011	U	0.009	0.001	0.0951	J	0.59	0.071	0.08	U	0.67	0.08
1,3,5-Trimethylbenzene	93	93		0.00161	J	0.01	0.001	0.00079	U	0.008	8E-04	0.077	U	0.77	0.077	0.00093	U	0.009	9E-04	18		0.59	0.059	34		0.67	0.067
Toluene	100	44		0.140		0.01	0.001	0.0095	U	0.008	0.01	0.092	U	0.77	0.092	0.00281	J	0.009	0.001	4.1		0.59	0.071	0.1801	J	0.67	0.08
Xylenes, total	1,000	990		0.024		0.02	0.003	0.0022	U	0.016	0.002	0.21	U	1.5	0.21	0.0026	U	0.019	0.003	10		1.2	0.17	23		1.3	0.19
Methyl tert-butyl ether	2	1.4		0.00221	J	0.01	0.001	0.00079	U	0.008	8E-04	0.077	U	0.77	0.077	0.00093	U	0.009	9E-04	0.059	U	0.59	0.059	0.067	U	0.67	0.067
Benzene	0.5	0.13		0.032		0.01	0.001	0.00079	U	0.008	8E-04	0.077	U	0.77	0.077	0.00141	J	0.009	9E-04	0.66		0.59	0.059	0.067	U	0.67	0.067
Naphthalene	25	25		0.004	U	0.01	0.004	0.0032	U	0.008	0.003	0.31	U	0.77	0.31	0.0037	U	0.009	0.004	4.8		0.59	0.24	3.1		0.67	0.27
1,2,4-Trimethylbenzene	300	300		0.00371	J	0.01	0.001	0.00079	U	0.008	8E-04	0.077	U	0.77	0.077	0.00093	U	0.009	9E-04	10		0.59	0.059	100		6.7	0.67
Isopropylbenzene	2,500	2,500		0.0008	U	0.01	8E-04	0.00063	U	0.008	6E-04	0.061	U	0.77	0.061	0.00074	U	0.009	7E-04	0.2401	J	0.59	0.047	2.4		0.67	0.053
1,2,-Dibromoethane	0.005	0.0013		0.0008	U	0.01	8E-04	0.00063	U	0.008	6E-04	***0.061***	U	0.77	0.061	0.00074	U	0.009	7E-04	***0.047***	U	0.59	0.047	***0.053***	U	0.67	0.053
Semivolatile Organic Compounds																											
Anthracene	350	--		0.0048	U	0.024	0.005	0.0171	J	0.022	0.004	0.0045	U	0.023	0.005	0.0045	U	0.022	0.005	0.66		0.028	0.006	0.69		0.028	0.006
Benzo(a)anthracene	130	--		0.0048	U	0.024	0.005	0.0121	J	0.022	0.004	0.0045	U	0.023	0.005	0.0045	U	0.022	0.005	0.0211	J	0.028	0.006	0.0221	J	0.028	0.006
Benzo(a)pyrene	46	--		0.0048	U	0.024	0.005	0.00891	J	0.022	0.004	0.0045	U	0.023	0.005	0.0045	U	0.022	0.005	0.0111	J	0.028	0.006	0.0101	J	0.028	0.006
Benzo(b)fluoranthene	76	--		0.0048	U	0.024	0.005	0.0131	J	0.022	0.004	0.0045	U	0.023	0.005	0.0045	U	0.022	0.005	0.0201	J	0.028	0.006	0.0221	J	0.028	0.006
Benzo(g,h,i)perylene	180	--		0.00841	J	0.024	0.005	0.0121	J	0.022	0.004	0.0045	U	0.023	0.005	0.0045	U	0.022	0.005	0.0171	J	0.028	0.006	0.0141	J	0.028	0.006
Chrysene	230	--		0.0211	J	0.024	0.005	0.0131	J	0.022	0.004	0.0045	U	0.023	0.005	0.0045	U	0.022	0.005	0.087		0.028	0.006	0.075		0.028	0.006
Fluorene	3,800	--		0.0211	J	0.024	0.005	0.0044	U	0.022	0.004	0.0045	U	0.023	0.005	0.0045	U	0.022	0.005	2.5		0.028	0.006	2.2		0.028	0.006
Phenanthrene	10,000	--		0.150		0.024	0.006	0.026		0.022	0.005	0.00841	J	0.023	0.005	0.0054	U	0.022	0.005	3.2		0.028	0.007	3		0.028	0.007
Pyrene	2,200	--		0.026		0.024	0.005	0.0201	J	0.022	0.004	0.00541	J	0.023	0.005	0.0045	U	0.022	0.005	1.3		0.028	0.006	1.1		0.028	0.006
Inorganics																											
Lead	450	--		60		2	0.79	32		1.8	0.71	40		1.7	0.69	14		1.7	0.67	22		2.1	0.85	24	FL	1.8	0.74

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	Pipe 30 / 3 / 410-51060-4 / 8/11/2021 / 2.0				Pipe 31 / 3 / 410-50879-20 / 8/11/2021 / 2.0				Pipe-32 / 3 / 410-50879-5 / 8/10/2021 / 2.0				Pipe 33 / 3 / 410-50879-6 / 8/10/2021 / 2.0				Pipe 34 / 3 / 410-50879-9 / 8/10/2021 / 2.0				Pipe 35 / 3 / 410-50879-10 / 8/10/2021 / 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																												
Ethylbenzene	70	46		0.055	U	0.69	0.055	0.00079	U	0.01	8E-04	0.00077	U	0.01	8E-04	0.0008	U	0.01	8E-04	0.1001	J	1	0.083	0.00088	U	0.011	9E-04
1,2-Dichloroethane	0.5	3.9		0.083	U	0.69	0.083	0.0012	U	0.01	0.001	0.00121	J^c	0.01	0.001	0.00181	J	0.01	0.001	0.12	U	1	0.12	0.00141	J^c	0.011	0.001
1,3,5-Trimethylbenzene	93	93		0.2101	J	0.69	0.069	0.00099	U	0.01	1E-03	0.000981	J	0.01	1E-03	0.001	U	0.01	0.001	0.6101	J	1	0.1	0.00361	J	0.011	0.001
Toluene	100	44		0.0881	J	0.69	0.083	0.0012	U	0.01	0.001	0.00301	J	0.01	0.001	0.00661	J	0.01	0.001	0.12	U	1	0.12	0.00481	J	0.011	0.001
Xylenes, total	1,000	990		0.19	U	1.4	0.19	0.0028	U	0.02	0.003	0.0027	U	0.019	0.003	0.00331	J	0.02	0.003	0.7501	J	2.1	0.29	0.00351	J	0.022	0.003
Methyl tert-butyl ether	2	1.4		0.069	U	0.69	0.069	0.00099	U	0.01	1E-03	0.00096	U	0.01	1E-03	0.001	U	0.01	0.001	0.1	U	1	0.1	0.0011	U	0.011	0.001
Benzene	0.5	0.13		0.069	U	0.69	0.069	0.00099	U	0.01	1E-03	0.00511	J	0.01	1E-03	0.00911	J	0.01	0.001	0.1	U	1	0.1	0.00741	J	0.011	0.001
Naphthalene	25	25		0.28	U	0.69	0.28	0.004	U	0.01	0.004	0.0038	U	0.01	0.004	0.004	U	0.01	0.004	0.41	U	1	0.41	0.0044	U	0.011	0.004
1,2,4-Trimethylbenzene	300	300		0.3301	J	0.69	0.069	0.00099	U	0.01	1E-03	0.00121	J	0.01	1E-03	0.001	U	0.01	0.001	1.0		1	0.1	0.00581	J	0.011	0.001
Isopropylbenzene	2,500	2,500		0.055	U	0.69	0.055	0.00079	U	0.01	8E-04	0.00077	U	0.01	8E-04	0.0008	U	0.01	8E-04	0.083	U	1	0.083	0.00088	U	0.011	9E-04
1,2,-Dibromoethane	0.005	0.0013		***0.055***	U	0.69	0.055	0.00079	U	0.01	8E-04	0.00077	U	0.01	8E-04	0.0008	U	0.01	8E-04	***0.083***	U	1	0.083	0.00088	U	0.011	9E-04
Semivolatile Organic Compounds																												
Anthracene	350	--		0.006	U	0.03	0.006	0.0141	J	0.032	0.006	0.0141	J	0.023	0.005	0.051		0.025	0.005	0.100		0.021	0.004	0.00901	J	0.023	0.005
Benzo(a)anthracene	130	--		0.00671	J	0.03	0.006	0.0063	U	0.032	0.006	0.0047	U	0.023	0.005	0.040		0.025	0.005	0.0121	J	0.021	0.004	0.0045	U	0.023	0.005
Benzo(a)pyrene	46	--		0.006	U	0.03	0.006	0.0063	U	0.032	0.006	0.00591	J	0.023	0.005	0.029		0.025	0.005	0.0161	J	0.021	0.004	0.00611	J	0.023	0.005
Benzo(b)fluoranthene	76	--		0.006	U	0.03	0.006	0.0063	U	0.032	0.006	0.00571	J	0.023	0.005	0.089		0.025	0.005	0.0141	J	0.021	0.004	0.0045	U	0.023	0.005
Benzo(g,h,i)perylene	180	--		0.00851	J	0.03	0.006	0.0063	U	0.032	0.006	0.00641	J	0.023	0.005	0.064		0.025	0.005	0.130		0.021	0.004	0.0045	U	0.023	0.005
Chrysene	230	--		0.0131	J	0.03	0.006	0.0063	U	0.032	0.006	0.00841	J	0.023	0.005	0.065		0.025	0.005	0.0171	J	0.021	0.004	0.0045	U	0.023	0.005
Fluorene	3,800	--		0.00981	J	0.03	0.006	0.0063	U	0.032	0.006	0.00791	J	0.023	0.005	0.0121	J	0.025	0.005	0.026		0.021	0.004	0.0045	U	0.023	0.005
Phenanthrene	10,000	--		0.034		0.03	0.007	0.00761	J	0.032	0.008	0.100		0.023	0.006	0.084		0.025	0.006	0.027		0.021	0.005	0.032		0.023	0.005
Pyrene	2,200	--		0.0111	J	0.03	0.006	0.0063	U	0.032	0.006	0.00651	J	0.023	0.005	0.042		0.025	0.005	0.036		0.021	0.004	0.0045	U	0.023	0.005
Inorganics																												
Lead	450	--		54		2.4	0.97	31		2	0.8	95		2	0.78	920		2.1	0.83	79		1.7	0.67	17		1.4	0.57

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	Pipe 36 / 3 / 410-50879-11 / 8/10/2021 / 2.0				Pipe 37 / 3 / 410-50879-12 / 8/10/2021 / 2.0				Pipe 38 / 3 / 410-50879-13 / 8/10/2021 / 2.0				Pipe 39 / 3 / 410-50879-14 / 8/10/2021 / 2.0				DUP-06 / 3 / 410-50879-26 / 8/10/2021				Pipe 40 / 3 / 410-50879-15 / 8/10/2021 / 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
Ethylbenzene	70	46		0.00081	U	0.01	8E-04	0.00088	U	0.011	9E-04	0.064	U	0.8	0.064	0.00088	U	0.011	9E-04	0.048	U	0.59	0.048	0.0631	J	0.71	0.057
1,2-Dichloroethane	0.5	3.9		0.0012	U	0.01	0.001	0.0013	U	0.011	0.001	0.096	U	0.8	0.096	0.0013	U	0.011	0.001	0.071	U	0.59	0.071	0.085	U	0.71	0.085
1,3,5-Trimethylbenzene	93	93		0.001	U	0.01	0.001	0.0011	U	0.011	0.001	0.08	U	0.8	0.08	0.011	U	0.011	0.011	0.059	U	0.59	0.059	0.071	U	0.71	0.071
Toluene	100	44		0.0012	U	0.01	0.001	0.0013	U	0.011	0.001	0.096	U	0.8	0.096	0.0013	U	0.011	0.001	0.071	U	0.59	0.071	0.1601	J	0.71	0.085
Xylenes, total	1,000	990		0.0028	U	0.02	0.003	0.0031	U	0.022	0.003	0.22	U	1.6	0.22	0.0031	U	0.022	0.003	0.17	U	1.2	0.17	0.2101	J	1.4	0.2
Methyl tert-butyl ether	2	1.4		0.001	U	0.01	0.001	0.0011	U	0.011	0.001	0.08	U	0.8	0.08	0.0011	U	0.011	0.001	0.059	U	0.59	0.059	0.071	U	0.71	0.071
Benzene	0.5	0.13		0.00181	J	0.01	0.001	0.0011	U	0.011	0.001	0.08	U	0.8	0.08	0.0011	U	0.011	0.001	0.059	U	0.59	0.059	0.071	U	0.71	0.071
Naphthalene	25	25		0.0041	U	0.01	0.004	0.0044	U	0.011	0.004	0.32	U	0.8	0.32	0.0044	U	0.011	0.004	0.24	U	0.59	0.24	0.28	U	0.71	0.28
1,2,4-Trimethylbenzene	300	300		0.001	U	0.01	0.001	0.0011	U	0.011	0.001	0.08	U	0.8	0.08	0.0011	U	0.011	0.001	0.059	U	0.59	0.059	0.071	U	0.71	0.071
Isopropylbenzene	2,500	2,500		0.00081	U	0.01	8E-04	0.00088	U	0.011	9E-04	0.064	U	0.8	0.064	0.00086	U	0.011	9E-04	0.048	U	0.59	0.048	0.057	U	0.71	0.057
1,2,-Dibromoethane	0.005	0.0013		0.00081	U	0.01	8E-04	0.00088	U	0.011	9E-04	***0.064***	U	0.8	0.064	0.00086	U	0.011	9E-04	***0.048***	U	0.59	0.048	***0.057***	U	0.71	0.057
Semivolatile Organic Compounds																											
Anthracene	350	--		0.00931	J	0.024	0.005	0.0062	U	0.031	0.006	0.0211	J	0.031	0.006	0.0141	J	0.028	0.006	0.0051	U	0.026	0.005	0.0049	U	0.025	0.005
Benzo(a)anthracene	130	--		0.00551	J	0.024	0.005	0.0062	U	0.031	0.006	0.0062	U	0.031	0.006	0.0055	U	0.028	0.006	0.0241	J	0.026	0.005	0.0161	J	0.025	0.005
Benzo(a)pyrene	46	--		0.0048	U	0.024	0.005	0.0062	U	0.031	0.006	0.0151	J	0.031	0.006	0.0055	U	0.028	0.006	0.0141	J	0.026	0.005	0.00941	J	0.025	0.005
Benzo(b)fluoranthene	76	--		0.00561	J	0.024	0.005	0.0062	U	0.031	0.006	0.0221	J	0.031	0.006	0.0055	U	0.028	0.006	0.026		0.026	0.005	0.0161	J	0.025	0.005
Benzo(g,h,i)perylene	180	--		0.0048	U	0.024	0.005	0.0062	U	0.031	0.006	0.0201	J	0.031	0.006	0.0111	J	0.028	0.006	0.0171	J	0.026	0.005	0.0161	J	0.025	0.005
Chrysene	230	--		0.0048	U	0.024	0.005	0.0062	U	0.031	0.006	0.0241	J	0.031	0.006	0.0055	U	0.028	0.006	0.039		0.026	0.005	0.025		0.025	0.005
Fluorene	3,800	--		0.0048	U	0.024	0.005	0.0062	U	0.031	0.006	0.0062	U	0.031	0.006	0.0055	U	0.028	0.006	0.100		0.026	0.005	0.087		0.025	0.005
Phenanthrene	10,000	--		0.025		0.024	0.006	0.0074	U	0.031	0.007	0.0291	J	0.031	0.007	0.00771	J	0.028	0.007	0.160		0.026	0.006	0.150		0.025	0.006
Pyrene	2,200	--		0.0048	U	0.024	0.005	0.0062	U	0.031	0.006	0.033		0.031	0.006	0.0055	U	0.028	0.006	0.100		0.026	0.005	0.120		0.025	0.005
Inorganics																											
Lead	450	--		26		1.7	0.68	30		2.3	0.91	170		1.9	0.78	64		2.1	0.85	20		1.7	0.69	28		1.9	0.74

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values	Sample ID / Area / Laboratory ID / Collection Date / Sample Depth	Pipe 41 / 3 / 410-51318-12 / 8/13/2021 / 2.0				Pipe 42 / 3 / 410-51318-11 / 8/13/2021 / 2.0				Pipe 43 / 3 / 410-51318-10 / 8/13/2021 / 2.0				Pipe 44 / 3 / 410-51060-6 / 8/11/2021 / 2.0			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																			
Ethylbenzene	70	46		0.00065	U	0.008	7E-04	0.041		0.009	7E-04	0.00071	U	0.009	7E-04	0.061	U	0.77	0.061
1,2-Dichloroethane	0.5	3.9		0.00097	U	0.008	1E-03	0.0011	U	0.009	0.001	0.0011	U	0.009	0.001	0.092	U	0.77	0.092
1,3,5-Trimethylbenzene	93	93		0.00081	U	0.008	8E-04	0.000961	J	0.009	9E-04	0.00761	J	0.009	9E-04	0.1401	J	0.77	0.077
Toluene	100	44		0.00097	U	0.008	1E-03	0.00121	J	0.009	0.001	0.0011	U	0.009	0.001	0.092	U	0.77	0.092
Xylenes, total	1,000	990		0.0023	U	0.016	0.002	0.33		0.018	0.003	0.0025	U	0.018	0.003	0.21	U	1.5	0.21
Methyl tert-butyl ether	2	1.4		0.00081	U	0.008	8E-04	0.00091	U	0.009	9E-04	0.00089	U	0.009	9E-04	0.077	U	0.77	0.077
Benzene	0.5	0.13		0.00081	U	0.008	8E-04	0.00091	U	0.009	9E-04	0.00089	U	0.009	9E-04	0.077	U	0.77	0.077
Naphthalene	25	25		0.0032	U	0.008	0.003	0.0036	U	0.009	0.004	0.0035	U	0.009	0.004	0.31	U	0.77	0.31
1,2,4-Trimethylbenzene	300	300		0.00081	U	0.008	8E-04	0.00141	J	0.009	9E-04	0.015		0.009	9E-04	0.2201	J	0.77	0.077
Isopropylbenzene	2,500	2,500		0.00065	U	0.008	7E-04	0.00141	J	0.009	7E-04	0.00071	U	0.009	7E-04	0.061	U	0.77	0.061
1,2,-Dibromoethane	0.005	0.0013		0.00065	U	0.008	7E-04	0.00073	U	0.009	7E-04	0.00071	U	0.009	7E-04	***0.061***	U	0.77	0.061
Semivolatile Organic Compounds																			
Anthracene	350	--		0.0221	J	0.029	0.006	0.031		0.026	0.005	0.0171	J	0.049	0.01	0.29		0.031	0.006
Benzo(a)anthracene	130	--		0.0221	J	0.029	0.006	0.045		0.026	0.005	0.0401	J	0.049	0.01	0.0301	J	0.031	0.006
Benzo(a)pyrene	46	--		0.0251	J	0.029	0.006	0.041		0.026	0.005	0.0371	J	0.049	0.01	0.0181	J	0.031	0.006
Benzo(b)fluoranthene	76	--		0.046		0.029	0.006	0.066		0.026	0.005	0.057		0.049	0.01	0.033		0.031	0.006
Benzo(g,h,i)perylene	180	--		0.0251	J	0.029	0.006	0.041		0.026	0.005	0.0391	J	0.049	0.01	0.0231	J	0.031	0.006
Chrysene	230	--		0.046		0.029	0.006	0.08		0.026	0.005	0.051		0.049	0.01	0.068		0.031	0.006
Fluorene	3,800	--		0.00861	J	0.029	0.006	0.0052	U	0.026	0.005	0.0097	U	0.049	0.01	0.25		0.031	0.006
Phenanthrene	10,000	--		0.067		0.029	0.007	0.12		0.026	0.006	0.087		0.049	0.012	0.47		0.031	0.007
Pyrene	2,200	--		0.063		0.029	0.006	0.072		0.026	0.005	0.072		0.049	0.01	0.71		0.031	0.006
Inorganics																			
Lead	450	--		120		1.9	0.77	110		2.1	0.82	60		1.8	0.71	32		2.1	0.86

Table 5
Tank Containment Area 3 - Summary of Soil Sampling Results for AST Closure
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Notes:
1. Samples were collected by Stantec Consulting Services, Inc. on behalf of PBF Logistics Products Terminals LLC.
2. Concentrations are reported in milligrams per kilogram.
3. Shaded results indicate detected concentrations in exceedance of the Representative Pennsylvania Soil MSCs.
4. Underlined results indicate detected concentrations in exceedance of the Pennsylvania Non-Residential Vapor Intrusion screening values.
5. ***Bold and italicized*** values indicate a non-detected result with the MDL greater than the MSC.

Acronyms and Abbreviations:
' = foot/feet
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
AST = aboveground storage tank
Conc = concentration
GW = groundwater
ID = identification
MDL = method detection limit
MSC = Medium Specific Concentration
ND = not detected
Q = qualifier
RL = reporting limit

Laboratory Qualifiers:
F2 = MS/MSD RPD exceeds control limits
FL = MS and/or MSD recovery below control limits
J = The compound was detected; however, the concentration is below the laboratory reporting limit, so the concentration is estimated.
J^c = CCV recovery is outside acceptance limits
U = Compound was undetected at the listed laboratory method detection limit.

Table 6
Tank Containment Area 3 - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: Tank Containment Area: Laboratory ID: Collection Date: Sample Depth: Sample Matrix:	PIPE 22 (13-13.5) 3 L2158069-05 10/22/2021 13-13.5 SOIL				2040-P2 (4.5-5) 3 L2158069-06 10/22/2021 4.5-5 SOIL				941 CENTER (11-11.5) 3 L2158069-07 10/22/2021 11-11.5 SOIL				PIPE 29 4.5-5 3 L2310798-01 3/1/2023 4.5-5 SOIL				SB-301 (1.5-2) 3 L2310798-02 3/1/2023 1.5-2 SOIL				2040-P2 (9.5-10) 3 L2314083-01 3/17/2023 9.5-10 SOIL				SB-304 (2.5-3) 3 L2314083-04 3/17/2023 2.5-3 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																			
Benzene	0.5	0.13		-		-	-	-		-	-	-		-	-	0.00032	U	0.00096	0.00032	0.00035	U	0.001	0.00035	-		-	-	-		-	-
Semivolatile Organic Compounds																																			
Benzo(a)pyrene	46	--		-		-	-	-		-	-	0.057	U	0.19	0.057	-		-	-	-		-	-	-		-	-	-		-	-
Total Inorganics																																			
Lead, total	450	--		1,520		2.47	0.132	2.12		2.07	0.111	-		-	-	-		-	-	-		-	-	3.43	J	13.7	0.736	15.6		2.47	0.132
General Chemistry																																			
Solids, total	--	--		78		0.1	-	91.6		0.1	-	70.5		0.1	-	55.7		0.1	-	54.4		0.1	-	68.7		0.1	-	79		0.1	-

Notes:
1. Samples were collected by Arcadis U.S., Inc. on behalf of Alliance 51st Street LLC.
2. Concentrations are reported in milligrams per kilogram.
3. Shaded results indicate detected concentrations in exceedance of the Representative Pennsylvania Soil MSCs.
4. There were no exceedances of the Pennsylvania Non-Residential Vapor Intrusion screening values.

Acronyms and Abbreviations:
' = foot/feet
- = data not available
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
Conc = concentration
GC/MS = gas chromatography/mass spectrometry
GW = groundwater
ID = identification
MDL = method detection limit
MSC = Medium Specific Concentration
Q = qualifier
RL = reporting limit

Laboratory Qualifier:
J = The compound was detected; however, the concentration is below the laboratory reporting limit, so the concentration is estimated.
U = Compound was undetected at the listed laboratory method detection limit.

Table 7
Other Site Areas - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: Tank Containment Area Laboratory ID: Collection Date: Sample Depth: Sample Matrix:	MW-8 (5.5-6) PAD L2213931-01 3/16/2022 5.5-6 SOIL				SB-201 (8.5-9) PAD L2213931-02 3/16/2022 8.5-9 SOIL				SB-202 (8.5-9) PAD L2213931-03 3/16/2022 8.5-9 SOIL				SB-202 (8.5-9) PAD L2213931-03 R1 3/16/2022 8.5-9 SOIL				SB-203 (8.5-9) PAD L2213931-04 3/16/2022 8.5-9 SOIL				SB-203 (8.5-9) PAD L2213931-04 R1 3/16/2022 8.5-9 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
1,1,1-Trichloroethane	20	7.4		0.00019	U	0.00057	0.00019	0.086	U	0.26	0.086	0.13	U	0.4	0.13	-	-	-	-	0.026	U	0.079	0.026	-	-	-	-
1,1,2,2-Tetrachloroethane	0.43	0.13		0.00019	U	0.00057	0.00019	0.085	U	0.26	0.085	0.13	U	0.4	0.13	-	-	-	-	0.026	U	0.079	0.026	-	-	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	10000		0.00079	U	0.0045	0.00079	0.36	U	2	0.36	0.56	U	3.2	0.56	-	-	-	-	0.11	U	0.63	0.11	-	-	-	-
1,1,2-Trichloroethane	0.5	0.15		0.0003	U	0.0011	0.0003	0.14	U	0.51	0.14	0.22	U	0.81	0.22	-	-	-	-	0.042	U	0.16	0.042	-	-	-	-
1,1-Dichloroethane	16	3.9		0.00016	U	0.0011	0.00016	0.074	U	0.51	0.074	0.12	U	0.81	0.12	-	-	-	-	0.023	U	0.16	0.023	-	-	-	-
1,1-Dichloroethene	0.7	0.19		0.00027	U	0.0011	0.00027	0.12	U	0.51	0.12	0.19	U	0.81	0.19	-	-	-	-	0.038	U	0.16	0.038	-	-	-	-
1,2,3-Trichlorobenzene	--	--		0.00037	U	0.0023	0.00037	0.16	U	1	0.16	0.26	U	1.6	0.26	-	-	-	-	0.051	U	0.32	0.051	-	-	-	-
1,2,4-Trichlorobenzene	27	27		0.00031	U	0.0023	0.00031	0.14	U	1	0.14	0.22	U	1.6	0.22	-	-	-	-	0.043	U	0.32	0.043	-	-	-	-
1,2,4-Trimethylbenzene	300	300		0.0011	J	0.0023	0.00038	0.27	J	1	0.17	1.9		1.6	0.27	-		-	-	0.92		0.32	0.053	-		-	-
1,2-Dibromo-3-chloropropane	0.02	0.0092		0.0011	U	0.0034	0.0011	0.51	U	1.5	0.51	0.81	U	2.4	0.81	-	-	-	-	0.16	U	0.47	0.16	-	-	-	-
1,2-Dibromoethane	0.005	0.0013		0.00033	U	0.00057	0.00033	***0.15***	U	0.26	0.15	***0.24***	U	0.4	0.24	-	-	-	-	***0.046***	U	0.079	0.046	-	-	-	-
1,2-Dichlorobenzene	60	59		0.00016	U	0.0023	0.00016	0.074	U	1	0.074	0.12	U	1.6	0.12	-	-	-	-	0.023	U	0.32	0.023	-	-	-	-
1,2-Dichloroethane	0.5	0.1		0.00029	U	0.0011	0.00029	0.13	U	0.51	0.13	0.21	U	0.81	0.21	-	-	-	-	0.04	U	0.16	0.04	-	-	-	-
1,2-Dichloroethene, total	--	--		0.00016	U	0.0011	0.00016	0.07	U	0.51	0.07	0.11	U	0.81	0.11	-	-	-	-	0.022	U	0.16	0.022	-	-	-	-
1,2-Dichloropropane	0.5	0.11		0.00014	U	0.0011	0.00014	0.064	U	0.51	0.064	0.1	U	0.81	0.1	-	-	-	-	0.02	U	0.16	0.02	-	-	-	-
1,3,5-Trimethylbenzene	93	93		0.00037	J	0.0023	0.00022	0.12	J	1	0.099	0.64	J	1.6	0.16	-	-	-	-	0.27	J	0.32	0.03	-	-	-	-
1,3-Dichlorobenzene	61	--		0.00017	U	0.0023	0.00017	0.076	U	1	0.076	0.12	U	1.6	0.12	-	-	-	-	0.023	U	0.32	0.023	-	-	-	-
1,3-Dichloropropene, total	2.7	0.48		0.00018	U	0.00057	0.00018	0.081	U	0.26	0.081	0.13	U	0.4	0.13	-	-	-	-	0.025	U	0.079	0.025	-	-	-	-
1,4-Dichlorobenzene	10	10		0.00019	U	0.0023	0.00019	0.088	U	1	0.088	0.14	U	1.6	0.14	-	-	-	-	0.027	U	0.32	0.027	-	-	-	-
1,4-Dioxane	2.7	9		0.04	U	0.091	0.04	18	U	41	18	28	U	65	28	-	-	-	-	5.5	U	13	5.5	-	-	-	-
2-Butanone	400	1100		0.0031	J	0.011	0.0025	1.1	U	5.1	1.1	1.8	U	8.1	1.8	-	-	-	-	0.35	U	1.6	0.35	-	-	-	-
2-Hexanone	26	6.4		0.0013	U	0.011	0.0013	0.61	U	5.1	0.61	0.95	U	8.1	0.95	-	-	-	-	0.18	U	1.6	0.18	-	-	-	-
4-Methyl-2-pentanone	780	210		0.0014	U	0.011	0.0014	0.66	U	5.1	0.66	1	U	8.1	1	-	-	-	-	0.2	U	1.6	0.2	-	-	-	-
Acetone	8800	4700		0.021	J	0.028	0.011	2.5	U	5.1	2.5	3.9	U	8.1	3.9	-	-	-	-	0.76	U	1.6	0.76	-	-	-	-
Benzene	0.5	0.13		0.00019	U	0.00057	0.00019	0.085	U	0.26	0.085	2.6		0.4	0.13	-	-	-	-	0.4		0.079	0.026	-	-	-	-
Bromochloromethane	9	1.6		0.00023	U	0.0023	0.00023	0.1	U	1	0.1	0.16	U	1.6	0.16	-	-	-	-	0.032	U	0.32	0.032	-	-	-	-
Bromodichloromethane	8	2.7		0.00012	U	0.00057	0.00012	0.056	U	0.26	0.056	0.088	U	0.4	0.088	-	-	-	-	0.017	U	0.079	0.017	-	-	-	-
Bromoform	8	3.5		0.00028	U	0.0045	0.00028	0.13	U	2	0.13	0.2	U	3.2	0.2	-	-	-	-	0.039	U	0.63	0.039	-	-	-	-
Bromomethane	1	0.54		0.00066	U	0.0023	0.00066	0.3	U	1	0.3	0.47	U	1.6	0.47	-	-	-	-	0.092	U	0.32	0.092	-	-	-	-
Carbon disulfide	620	530		0.0052	U	0.011	0.0052	2.3	U	5.1	2.3	3.7	U	8.1	3.7	-	-	-	-	0.72	U	1.6	0.72	-	-	-	-
Carbon tetrachloride	0.5	0.26		0.00026	U	0.0011	0.00026	0.12	U	0.51	0.12	0.18	U	0.81	0.18	-	-	-	-	0.036	U	0.16	0.036	-	-	-	-
Chlorobenzene	10	6.1		0.00014	U	0.00057	0.00014	0.065	U	0.26	0.065	0.1	U	0.4	0.1	-	-	-	-	0.02	U	0.079	0.02	-	-	-	-
Chloroethane	8800	1900		0.00051	U	0.0023	0.00051	0.23	U	1	0.23	0.36	U	1.6	0.36	-	-	-	-	0.071	U	0.32	0.071	-	-	-	-
Chloroform	8	2		0.00016	U	0.0017	0.00016	0.072	U	0.77	0.072	0.11	U	1.2	0.11	-	-	-	-	0.022	U	0.24	0.022	-	-	-	-
Chloromethane	3	0.38		0.001	U	0.0045	0.001	0.48	U	2	0.48	0.75	U	3.2	0.75	-	-	-	-	0.15	U	0.63	0.15	-	-	-	-
cis-1,2-Dichloroethene	7	--		0.0002	U	0.0011	0.0002	0.09	U	0.51	0.09	0.14	U	0.81	0.14	-	-	-	-	0.028	U	0.16	0.028	-	-	-	-
cis-1,3-Dichloropropene	3.4	--		0.00018	U	0.00057	0.00018	0.081	U	0.26	0.081	0.13	U	0.4	0.13	-	-	-	-	0.025	U	0.079	0.025	-	-	-	-
Cyclohexane	6900	6900		0.00062	U	0.011	0.00062	0.3	J	5.1	0.28	41		8.1	0.44	-		-	-	12		1.6	0.086	-		-	-
Dibromochloromethane	8	2.5		0.00016	U	0.0011	0.00016	0.072	U	0.51	0.072	0.11	U	0.81	0.11	-	-	-	-	0.022	U	0.16	0.022	-	-	-	-
Dichlorodifluoromethane	100	100		0.001	U	0.011	0.001	0.47	U	5.1	0.47	0.74	U	8.1	0.74	-	-	-	-	0.14	U	1.6	0.14	-	-	-	-
Ethylbenzene	70	46		0.00016	U	0.0011	0.00016	0.072	U	0.51	0.072	4.7		0.81	0.11	-		-	-	1.1		0.16	0.022	-		-	-
Isopropylbenzene	2500	2500		0.00028	J	0.0011	0.00012	1.4		0.51	0.056	38		0.81	0.088	-		-	-	10		0.16	0.017	-		-	-
Methyl acetate	9700	--		0.0011	U	0.0045	0.0011	1.8	J	2	0.49	0.77	U	3.2	0.77	-	-	-	-	0.25	J	0.63	0.15	-	-	-	-
Methyl cyclohexane	--	--		0.0009	J	0.0045	0.00068	4.1		2	0.31	410		32	4.9	260	E	3.2	0.49	64		6.3	0.95	53	E	0.63	0.095
Methyl tert-butyl ether	2	1.4		0.00023	U	0.0023	0.00023	0.1	U	1	0.1	0.16	U	1.6	0.16	-	-	-	-	0.032	U	0.32	0.032	-	-	-	-
Methylene chloride	0.5	1.5		0.0026	U	0.0057	0.0026	1.2	U	2.6	1.2	1.8	U	4	1.8	-	-	-	-	0.36	U	0.79	0.36	-	-	-	-
Naphthalene	25	25		0.0018	J	0.0045	0.00074	0.41	J	2	0.33	1.8	J	3.2	0.52	-	-	-	-	1.4		0.63	0.1	-		-	-
o-Xylene	1000	--		0.00033	U	0.0011	0.00033	0.15	U	0.51	0.15	1.1		0.81	0.24	-		-	-	0.39		0.16	0.046	-		-	-
p/m-Xylene	1000	--		0.00064	U	0.0023	0.00064	0.29	U	1	0.29	5.8		1.6	0.45	-		-	-	1.9		0.32	0.088	-		-	-
Styrene	24	79		0.00027	J	0.0011	0.00022	0.1	U	0.51	0.1	0.16	U	0.81	0.16	-	-	-	-	0.031	J	0.16	0.031	-	-	-	-
Tetrachloroethene	0.5	0.43		0.00022	U	0.00057	0.00022	0.1	U	0.26	0.1	0.16	U	0.4	0.16	-	-	-	-	0.031	U	0.079	0.031	-	-	-	-
Toluene	100	44		0.00064	J	0.0011	0.00062	0.28	U	0.51	0.28	1.9		0.81	0.44	-		-	-	0.83		0.16	0.086	-		-	-
trans-1,2-Dichloroethene	10	2.3		0.00016	U	0.0017	0.00016	0.07	U	0.77	0.07	0.11	U	1.2	0.11	-	-	-	-	0.022	U	0.24	0.022	-	-	-	-
trans-1,3-Dichloropropene	3.4	--		0.00031	U	0.0011	0.00031	0.14	U	0.51	0.14	0.22	U	0.81	0.22	-	-	-	-	0.043	U	0.16	0.043	-	-	-	-
Trichloroethene	0.5	0.17		0.00016	U	0.00057	0.00016	0.07	U	0.26	0.07	0.11	U	0.4	0.11	-	-	-	-	0.022	U	0.079	0.022	-	-	-	-
Trichlorofluoromethane	200	87		0.00079	U	0.0045	0.00079	0.36	U	2	0.36	0.56	U	3.2	0.56	-	-	-	-	0.11	U	0.63	0.11	-	-	-	-
Vinyl chloride	0.2	0.027		0.00038	U	0.0011	0.00038	0.17	U	0.51	0.17	0.27	U	0.81	0.27	-	-	-	-	0.053	U	0.16	0.053	-	-	-	-
Xylenes, total	1000	990		0.00033	U	0.0011	0.00033	0.15	U	0.51	0.15	6.9		0.81	0.24	-		-	-	2.3		0.16	0.046	-		-	-
General Chemistry																											
Solids, total	--	--		92		0.1	-	71.4		0.1	-	74.9		0.1	-	-		-	-	59.5		0.1	-	-		-	-

Table 7
Other Site Areas - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: Tank Containment Area Laboratory ID: Collection Date: Sample Depth: Sample Matrix:	SB-204 (8.5-9) PAD L2213931-05 3/16/2022 8.5-9 SOIL				SB-204 (8.5-9) PAD L2213931-05 R1 3/16/2022 8.5-9 SOIL				SB-217 (8.5-9) PAD L2213931-18 3/17/2022 8.5-9 SOIL				SB-310 (8.5-9) PAD L2314083-13 3/17/2023 8.5-9 SOIL				SB-311 (7.5-8) PAD L2314083-14 3/17/2023 7.5-8 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																							
1,1,1-Trichloroethane	20	7.4		0.075	U	0.22	0.075	-		-	-	0.067	U	0.2	0.067	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.43	0.13		0.075	U	0.22	0.075	-		-	-	0.066	U	0.2	0.066	-	-	-	-	-	-	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	10000		0.31	U	1.8	0.31	-		-	-	0.28	U	1.6	0.28	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	0.5	0.15		0.12	U	0.45	0.12	-		-	-	0.11	U	0.4	0.11	-	-	-	-	-	-	-	-
1,1-Dichloroethane	16	3.9		0.065	U	0.45	0.065	-		-	-	0.058	U	0.4	0.058	-	-	-	-	-	-	-	-
1,1-Dichloroethene	0.7	0.19		0.11	U	0.45	0.11	-		-	-	0.095	U	0.4	0.095	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	--	--		0.14	U	0.9	0.14	-		-	-	0.13	U	0.8	0.13	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	27	27		0.12	U	0.9	0.12	-		-	-	0.11	U	0.8	0.11	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	300	300		2		0.9	0.15	-		-	-	3.6		0.8	0.13	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	0.02	0.0092		0.45	U	1.4	0.45	-		-	-	0.4	U	1.2	0.4	-	-	-	-	-	-	-	-
1,2-Dibromoethane	0.005	0.0013		***0.13***	U	0.22	0.13	-		-	-	***0.12***	U	0.2	0.12	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	60	59		0.065	U	0.9	0.065	-		-	-	0.058	U	0.8	0.058	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.5	0.1		0.12	U	0.45	0.12	-		-	-	0.1	U	0.4	0.1	-	-	-	-	-	-	-	-
1,2-Dichloroethene, total	--	--		0.062	U	0.45	0.062	-		-	-	0.055	U	0.4	0.055	-	-	-	-	-	-	-	-
1,2-Dichloropropane	0.5	0.11		0.056	U	0.45	0.056	-		-	-	0.05	U	0.4	0.05	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	93	93		1		0.9	0.087	-		-	-	1		0.8	0.077	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	61	--		0.067	U	0.9	0.067	-		-	-	0.059	U	0.8	0.059	-	-	-	-	-	-	-	-
1,3-Dichloropropene, total	2.7	0.48		0.071	U	0.22	0.071	-		-	-	0.063	U	0.2	0.063	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	10	10		0.077	U	0.9	0.077	-		-	-	0.068	U	0.8	0.068	-	-	-	-	-	-	-	-
1,4-Dioxane	2.7	9		16	U	36	16	-		-	-	14	U	32	14	-	-	-	-	-	-	-	-
2-Butanone	400	1100		1	U	4.5	1	-		-	-	0.89	U	4	0.89	-	-	-	-	-	-	-	-
2-Hexanone	26	6.4		0.53	U	4.5	0.53	-		-	-	0.47	U	4	0.47	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	780	210		0.58	U	4.5	0.58	-		-	-	0.51	U	4	0.51	-	-	-	-	-	-	-	-
Acetone	8800	4700		2.2	U	4.5	2.2	-		-	-	1.9	U	4	1.9	-	-	-	-	-	-	-	-
Benzene	0.5	0.13		0.59		0.22	0.075	-		-	-	1.00		0.2	0.066	0.00026	U	0.0008	0.00026	0.00021	U	0.00064	0.00021
Bromochloromethane	9	1.6		0.092	U	0.9	0.092	-		-	-	0.082	U	0.8	0.082	-	-	-	-	-	-	-	-
Bromodichloromethane	8	2.7		0.049	U	0.22	0.049	-		-	-	0.044	U	0.2	0.044	-	-	-	-	-	-	-	-
Bromoform	8	3.5		0.11	U	1.8	0.11	-		-	-	0.098	U	1.6	0.098	-	-	-	-	-	-	-	-
Bromomethane	1	0.54		0.26	U	0.9	0.26	-		-	-	0.23	U	0.8	0.23	-	-	-	-	-	-	-	-
Carbon disulfide	620	530		2	U	4.5	2	-		-	-	1.8	U	4	1.8	-	-	-	-	-	-	-	-
Carbon tetrachloride	0.5	0.26		0.1	U	0.45	0.1	-		-	-	0.092	U	0.4	0.092	-	-	-	-	-	-	-	-
Chlorobenzene	10	6.1		0.057	U	0.22	0.057	-		-	-	0.051	U	0.2	0.051	-	-	-	-	-	-	-	-
Chloroethane	8800	1900		0.2	U	0.9	0.2	-		-	-	0.18	U	0.8	0.18	-	-	-	-	-	-	-	-
Chloroform	8	2		0.063	U	0.68	0.063	-		-	-	0.056	U	0.6	0.056	-	-	-	-	-	-	-	-
Chloromethane	3	0.38		0.42	U	1.8	0.42	-		-	-	0.37	U	1.6	0.37	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	7	--		0.079	U	0.45	0.079	-		-	-	0.07	U	0.4	0.07	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	3.4	--		0.071	U	0.22	0.071	-		-	-	0.063	U	0.2	0.063	-	-	-	-	-	-	-	-
Cyclohexane	6900	6900		58		4.5	0.24	-		-	-	33		4	0.22	-	-	-	-	-	-	-	-
Dibromochloromethane	8	2.5		0.063	U	0.45	0.063	-		-	-	0.056	U	0.4	0.056	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	100	100		0.41	U	4.5	0.41	-		-	-	0.37	U	4	0.37	-	-	-	-	-	-	-	-
Ethylbenzene	70	46		3.1		0.45	0.063	-		-	-	0.6		0.4	0.056	-	-	-	-	-	-	-	-
Isopropylbenzene	2500	2500		26		0.45	0.049	-		-	-	14		0.4	0.044	-	-	-	-	-	-	-	-
Methyl acetate	9700	--		0.43	U	1.8	0.43	-		-	-	0.38	U	1.6	0.38	-	-	-	-	-	-	-	-
Methyl cyclohexane	--	--		150	E	1.8	0.27	120		3.6	0.54	110		1.6	0.24	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	2	1.4		0.09	U	0.9	0.09	-		-	-	0.08	U	0.8	0.08	-	-	-	-	-	-	-	-
Methylene chloride	0.5	1.5		1	U	2.2	1	-		-	-	0.92	U	2	0.92	-	-	-	-	-	-	-	-
Naphthalene	25	25		2.8		1.8	0.29	-		-	-	1.9		1.6	0.26	-	-	-	-	-	-	-	-
o-Xylene	1000	--		0.53		0.45	0.13	-		-	-	0.48		0.4	0.12	-	-	-	-	-	-	-	-
p/m-Xylene	1000	--		3.2		0.9	0.25	-		-	-	2.3		0.8	0.22	-	-	-	-	-	-	-	-
Styrene	24	79		0.088	U	0.45	0.088	-		-	-	0.078	U	0.4	0.078	-	-	-	-	-	-	-	-
Tetrachloroethene	0.5	0.43		0.088	U	0.22	0.088	-		-	-	0.078	U	0.2	0.078	-	-	-	-	-	-	-	-
Toluene	100	44		0.79		0.45	0.24	-		-	-	0.83		0.4	0.22	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	10	2.3		0.062	U	0.68	0.062	-		-	-	0.055	U	0.6	0.055	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	3.4	--		0.12	U	0.45	0.12	-		-	-	0.11	U	0.4	0.11	-	-	-	-	-	-	-	-
Trichloroethene	0.5	0.17		0.062	U	0.22	0.062	-		-	-	0.055	U	0.2	0.055	-	-	-	-	-	-	-	-
Trichlorofluoromethane	200	87		0.31	U	1.8	0.31	-		-	-	0.28	U	1.6	0.28	-	-	-	-	-	-	-	-
Vinyl chloride	0.2	0.027		0.15	U	0.45	0.15	-		-	-	0.13	U	0.4	0.13	-	-	-	-	-	-	-	-
Xylenes, total	1000	990		3.7		0.45	0.13	-		-	-	2.8		0.4	0.12	-	-	-	-	-	-	-	-
General Chemistry																							
Solids, total	--	--		73.7		0.1	-	-		-	-	80		0.1	-	77.2		0.1	-	84.5		0.1	-

Table 7
Other Site Areas - Summary of Delineation Soil Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Notes:
1. Samples were collected by Arcadis U.S., Inc. on behalf of Alliance 51st Street LLC.
2. Concentrations are reported in milligrams per kilogram.
3. Shaded results indicate detected concentrations in exceedance of the Representative Pennsylvania Soil MSCs.
4. Underlined results indicate detected concentrations in exceedance of the Pennsylvania Non-Residential Vapor Intrusion screening values.
5. ***Bold and italicized*** values indicate a non-detected result with the MDL greater than the MSC.

Acronyms and Abbreviations:
' = foot/feet
- = data not available
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
Conc = concentration
GW = groundwater
ID = identification
MDL = method detection limit
MSC = Medium Specific Concentration
Q = qualifier
RL = reporting limit

Laboratory Qualifiers:
E = The concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
J = The compound was detected; however, the concentration is below the laboratory reporting limit, so the concentration is estimated.
U = Compound was undetected at the listed laboratory method detection limit.

Table 8
Summary of Sampling Results - Onsite Soil Stockpile
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Nonresidential Soil Statewide Health Standard Vapor Intrusion Screening Values Criteria	Sample ID: / Laboratory ID: / Collection Date: / Sample Depth: / Sample Matrix:	B-1 (14-14.5) L2158502-01 10/25/2021 14-14.5 SOIL				B-2 (9.5-10) L2158502-02 10/25/2021 9.5-10 SOIL				B-3 (4.5-5) L2158502-03 10/25/2021 4.5-5 SOIL				B-7 (10-10.5) L2158502-05 10/25/2021 10-10.5 SOIL				B-7 (6.5-7) L2158502-04 10/25/2021 6.5-7 SOIL				B-8 (8-8.5) L2158502-06 10/25/2021 8-8.5 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
1,1,1-Trichloroethane	20	7.4		0.00019	U	0.00057	0.00019	0.00024	U	0.00073	0.00024	0.00028	U	0.00083	0.00028	0.0002	U	0.00061	0.0002	0.00027	U	0.00081	0.00027	0.0002	U	0.00061	0.0002
1,1,2,2-Tetrachloroethane	0.43	0.13		0.00019	U	0.00057	0.00019	0.00024	U	0.00073	0.00024	0.00027	U	0.00083	0.00027	0.0002	U	0.00061	0.0002	0.00027	U	0.00081	0.00027	0.0002	U	0.00061	0.0002
1,1,2-Trichloro-1,2,2-Trifluoroethane	10,000	10000		0.00079	U	0.0046	0.00079	0.001	U	0.0059	0.001	0.0011	U	0.0066	0.0011	0.00085	U	0.0049	0.00085	0.0011	U	0.0065	0.0011	0.00085	U	0.0049	0.00085
1,1,2-Trichloroethane	0.5	0.15		0.0003	U	0.0011	0.0003	0.00039	U	0.0015	0.00039	0.00044	U	0.0016	0.00044	0.00033	U	0.0012	0.00033	0.00043	U	0.0016	0.00043	0.00033	U	0.0012	0.00033
1,1-Dichloroethane	16	3.9		0.00016	U	0.0011	0.00016	0.00021	U	0.0015	0.00021	0.00024	U	0.0016	0.00024	0.00018	U	0.0012	0.00018	0.00024	U	0.0016	0.00024	0.00018	U	0.0012	0.00018
1,1-Dichloroethene	0.7	0.19		0.00027	U	0.0011	0.00027	0.00035	U	0.0015	0.00035	0.00039	U	0.0016	0.00039	0.00029	U	0.0012	0.00029	0.00039	U	0.0016	0.00039	0.00029	U	0.0012	0.00029
1,2,3-Trichlorobenzene	--	--		0.00037	U	0.0023	0.00037	0.00047	U	0.0029	0.00047	0.00053	U	0.0033	0.00053	0.0004	U	0.0024	0.0004	0.00052	U	0.0032	0.00052	0.00039	U	0.0024	0.00039
1,2,4-Trichlorobenzene	27	27		0.00031	U	0.0023	0.00031	0.0004	U	0.0029	0.0004	0.00045	U	0.0033	0.00045	0.00033	U	0.0024	0.00033	0.00044	U	0.0032	0.00044	0.00033	U	0.0024	0.00033
1,2-Dibromo-3-chloropropane	0.02	0.0092		0.0011	U	0.0034	0.0011	0.0015	U	0.0044	0.0015	0.0016	U	0.005	0.0016	0.0012	U	0.0037	0.0012	0.0016	U	0.0049	0.0016	0.0012	U	0.0037	0.0012
1,2-Dibromoethane	0.005	0.0013		0.00033	U	0.00057	0.00033	0.00043	U	0.00073	0.00043	0.00048	U	0.00083	0.00048	0.00036	U	0.00061	0.00036	0.00048	U	0.00081	0.00048	0.00036	U	0.00061	0.00036
1,2-Dichlorobenzene	60	59		0.00016	U	0.0023	0.00016	0.00021	U	0.0029	0.00021	0.00024	U	0.0033	0.00024	0.00018	U	0.0024	0.00018	0.00023	U	0.0032	0.00023	0.00035	J	0.0024	0.00018
1,2-Dichloroethane	0.5	0.1		0.00029	U	0.0011	0.00029	0.00038	U	0.0015	0.00038	0.00042	U	0.0016	0.00042	0.00032	U	0.0012	0.00032	0.00042	U	0.0016	0.00042	0.00031	U	0.0012	0.00031
1,2-Dichloroethene, total	--	--		0.00016	U	0.0011	0.00016	0.0002	U	0.0015	0.0002	0.00023	U	0.0016	0.00023	0.00017	U	0.0012	0.00017	0.00022	U	0.0016	0.00022	0.00017	U	0.0012	0.00017
1,2-Dichloropropane	0.5	0.11		0.00014	U	0.0011	0.00014	0.00018	U	0.0015	0.00018	0.00021	U	0.0016	0.00021	0.00015	U	0.0012	0.00015	0.0002	U	0.0016	0.0002	0.00015	U	0.0012	0.00015
1,3-Dichlorobenzene	61	--		0.00017	U	0.0023	0.00017	0.00022	U	0.0029	0.00022	0.00024	U	0.0033	0.00024	0.00018	U	0.0024	0.00018	0.00024	U	0.0032	0.00024	0.00018	U	0.0024	0.00018
1,3-Dichloropropene, total	2.7	0.48		0.00018	U	0.00057	0.00018	0.00023	U	0.00073	0.00023	0.00026	U	0.00083	0.00026	0.00019	U	0.00061	0.00019	0.00026	U	0.00081	0.00026	0.00019	U	0.00061	0.00019
1,4-Dichlorobenzene	10	10		0.00019	U	0.0023	0.00019	0.00025	U	0.0029	0.00025	0.00028	U	0.0033	0.00028	0.00021	U	0.0024	0.00021	0.00028	U	0.0032	0.00028	0.00021	U	0.0024	0.00021
1,4-Dioxane	2.7	9		0.04	U	0.091	0.04	0.052	U	0.12	0.052	0.058	U	0.13	0.058	0.043	U	0.098	0.043	0.057	U	0.13	0.057	0.043	U	0.098	0.043
2-Butanone	400	1100		0.0025	U	0.011	0.0025	0.0032	U	0.015	0.0032	0.0037	U	0.016	0.0037	0.0027	U	0.012	0.0027	0.0036	U	0.016	0.0036	0.0027	U	0.012	0.0027
2-Hexanone	26	6.4		0.0013	U	0.011	0.0013	0.0017	U	0.015	0.0017	0.002	U	0.016	0.002	0.0014	U	0.012	0.0014	0.0019	U	0.016	0.0019	0.0014	U	0.012	0.0014
4-Methyl-2-pentanone	780	210		0.0014	U	0.011	0.0014	0.0019	U	0.015	0.0019	0.0021	U	0.016	0.0021	0.0016	U	0.012	0.0016	0.0021	U	0.016	0.0021	0.0016	U	0.012	0.0016
Acetone	8,800	4700		0.011	U	0.028	0.011	0.015	U	0.037	0.015	0.016	U	0.041	0.016	0.012	U	0.031	0.012	0.022	J	0.041	0.016	0.027	J	0.031	0.012
Benzene	0.5	0.13		0.00019	U	0.00057	0.00019	0.00024	U	0.00073	0.00024	0.00027	U	0.00083	0.00027	0.0002	U	0.00061	0.0002	0.00027	U	0.00081	0.00027	0.0002	U	0.00061	0.0002
Bromochloromethane	9	1.6		0.00023	U	0.0023	0.00023	0.0003	U	0.0029	0.0003	0.00034	U	0.0033	0.00034	0.00025	U	0.0024	0.00025	0.00033	U	0.0032	0.00033	0.00025	U	0.0024	0.00025
Bromodichloromethane	8	2.7		0.00012	U	0.00057	0.00012	0.00016	U	0.00073	0.00016	0.00018	U	0.00083	0.00018	0.00013	U	0.00061	0.00013	0.00018	U	0.00081	0.00018	0.00013	U	0.00061	0.00013
Bromoform	8	3.5		0.00028	U	0.0046	0.00028	0.00036	U	0.0059	0.00036	0.00041	U	0.0066	0.00041	0.0003	U	0.0049	0.0003	0.0004	U	0.0065	0.0004	0.0003	U	0.0049	0.0003
Bromomethane	1	0.54		0.00066	U	0.0023	0.00066	0.00085	U	0.0029	0.00085	0.00096	U	0.0033	0.00096	0.00071	U	0.0024	0.00071	0.00094	U	0.0032	0.00094	0.00071	U	0.0024	0.00071
Carbon disulfide	620	530		0.0052	U	0.011	0.0052	0.0067	U	0.015	0.0067	0.0075	U	0.016	0.0075	0.0056	U	0.012	0.0056	0.0074	U	0.016	0.0074	0.0056	U	0.012	0.0056
Carbon tetrachloride	0.5	0.26		0.00026	U	0.0011	0.00026	0.00034	U	0.0015	0.00034	0.00038	U	0.0016	0.00038	0.00028	U	0.0012	0.00028	0.00037	U	0.0016	0.00037	0.00028	U	0.0012	0.00028
Chlorobenzene	10	6.1		0.00014	U	0.00057	0.00014	0.00019	U	0.00073	0.00019	0.00021	U	0.00083	0.00021	0.00016	U	0.00061	0.00016	0.00021	U	0.00081	0.00021	0.00016	U	0.00061	0.00016
Chloroethane	8,800	1900		0.00051	U	0.0023	0.00051	0.00066	U	0.0029	0.00066	0.00075	U	0.0033	0.00075	0.00056	U	0.0024	0.00056	0.00074	U	0.0032	0.00074	0.00055	U	0.0024	0.00055
Chloroform	8	2		0.00016	U	0.0017	0.00016	0.00035	J	0.0022	0.0002	0.00042	J	0.0025	0.00023	0.0003	J	0.0018	0.00017	0.00047	J	0.0024	0.00023	0.00017	U	0.0018	0.00017
Chloromethane	3	0.38		0.0011	U	0.0046	0.0011	0.0014	U	0.0059	0.0014	0.0015	U	0.0066	0.0015	0.0011	U	0.0049	0.0011	0.0015	U	0.0065	0.0015	0.0011	U	0.0049	0.0011
cis-1,2-Dichloroethene	7	--		0.0002	U	0.0011	0.0002	0.00026	U	0.0015	0.00026	0.00029	U	0.0016	0.00029	0.00021	U	0.0012	0.00021	0.00028	U	0.0016	0.00028	0.00021	U	0.0012	0.00021
cis-1,3-Dichloropropene	3.4	--		0.00018	U	0.00057	0.00018	0.00023	U	0.00073	0.00023	0.00026	U	0.00083	0.00026	0.00019	U	0.00061	0.00019	0.00026	U	0.00081	0.00026	0.00019	U	0.00061	0.00019
Cyclohexane	6,900	6900		0.00062	U	0.011	0.00062	0.0008	U	0.015	0.0008	0.0009	U	0.016	0.0009	0.00067	U	0.012	0.00067	0.00088	U	0.016	0.00088	0.00067	U	0.012	0.00067
Dibromochloromethane	8	2.5		0.00016	U	0.0011	0.00016	0.0002	U	0.0015	0.0002	0.00023	U	0.0016	0.00023	0.00017	U	0.0012	0.00017	0.00023	U	0.0016	0.00023	0.00017	U	0.0012	0.00017
Dichlorodifluoromethane	100	100		0.001	U	0.011	0.001	0.0013	U	0.015	0.0013	0.0015	U	0.016	0.0015	0.0011	U	0.012	0.0011	0.0015	U	0.016	0.0015	0.0011	U	0.012	0.0011
Ethylbenzene	70	46		0.00016	U	0.0011	0.00016	0.00021	U	0.0015	0.00021	0.00023	U	0.0016	0.00023	0.00017	U	0.0012	0.00017	0.00023	U	0.0016	0.00023	0.00017	U	0.0012	0.00017
Isopropylbenzene	2,500	2500		0.00012	U	0.0011	0.00012	0.00016	U	0.0015	0.00016	0.00018	U	0.0016	0.00018	0.00013	U	0.0012	0.00013	0.00018	U	0.0016	0.00018	0.00013	U	0.0012	0.00013
Methyl acetate	9,700	--		0.0011	U	0.0046	0.0011	0.0014	U	0.0059	0.0014	0.0016	U	0.0066	0.0016	0.0012	U	0.0049	0.0012	0.0015	U	0.0065	0.0015	0.0012	U	0.0049	0.0012
Methyl cyclohexane	--	--		0.00069	U	0.0046	0.00069	0.00088	U	0.0059	0.00088	0.001	U	0.0066	0.001	0.00074	U	0.0049	0.00074	0.00098	U	0.0065	0.00098	0.00074	U	0.0049	0.00074
Methyl tert-butyl ether	2	1.4		0.00023	U	0.0023	0.00023	0.0003	U	0.0029	0.0003	0.00033	U	0.0033	0.00033	0.00025	U	0.0024	0.00025	0.00033	U	0.0032	0.00033	0.00025	U	0.0024	0.00025
Methylene chloride	0.5	1.5		0.0026	U	0.0057	0.0026	0.0034	U	0.0073	0.0034	0.0038	U	0.0083	0.0038	0.0028	U	0.0061	0.0028	0.0037	U	0.0081	0.0037	0.0028	U	0.0061	0.0028
o-Xylene	1,000	--		0.00033	U	0.0011	0.00033	0.00043	U	0.0015	0.00043	0.00048	U	0.0016	0.00048	0.00036	U	0.0012	0.00036	0.00047	U	0.0016	0.00047	0.00036	U	0.0012	0.00036
p/m-Xylene	1,000	--		0.00064	U	0.0023	0.00064	0.00082	U	0.0029	0.00082	0.00093	U	0.0033	0.00093	0.00069	U	0.0024	0.00069	0.00091	U	0.0032	0.00091	0.00068	U	0.0024	0.00068
Styrene	24	79		0.00022	U	0.0011	0.00022	0.00029	U	0.0015	0.00029	0.00032	U	0.0016	0.00032	0.00024	U	0.0012	0.00024	0.00032	U	0.0016	0.00032	0.00024	U	0.0012	0.00024
Tetrachloroethene	0.5	0.43		0.00022	U	0.00057	0.00022	0.00029	U	0.00073	0.00029	0.00032	U	0.00083	0.00032	0.00024	U	0.00061	0.00024	0.00032	U	0.00081	0.00032	0.00024	U	0.00061	0.00024
Toluene	100	44		0.00062	U	0.0011	0.00062	0.0008	U	0.0015	0.0008	0.0009	U	0.0016	0.0009	0.00067	U	0.0012	0.00067	0.00088	U	0.0016	0.00088	0.00066	U	0.0012	0.00066
trans-1,2-Dichloroethene	10	2.3		0.00016	U	0.0017	0.00016	0.0002	U	0.0022	0.0002	0.00023	U	0.0025	0.00023	0.00017	U	0.0018	0.00017	0.00022	U	0.0024	0.00022	0.00017	U	0.0018	0.00017
trans-1,3-Dichloropropene	3.4	--		0.00031	U	0.0011	0.00031	0.0004	U	0.0015	0.0004	0.00045	U	0.0016	0.00045	0.00034	U	0.0012	0.00034	0.00044	U	0.0016	0.00044	0.00033	U	0.0012	0.00033
Trichloroethene	0.5	0.17		0.00016	U	0.00057	0.00016	0.0002	U	0.00073	0.0002	0.00023	U	0.00083	0.00023	0.00017	U	0.00061	0.00017	0.00022	U	0.00081	0.00022	0.00017	U	0.00061	0.00017
Trichlorofluoromethane	200	87		0.00079	U	0.0046	0.00079	0.001	U	0.0059	0.001	0.0012	U	0.0066	0.0012	0.00085	U	0.0049	0.00085	0.0011	U	0.0065	0.0011	0.00085	U	0.0049	0.00085
Vinyl chloride	0.2	0.027		0.00038	U	0.0011	0.00038	0.00049	U	0.0015	0.00049	0.00055	U	0.0016	0.00055	0.00041	U	0.0012	0.00041	0.00054	U	0.0016	0.00054	0.00041	U	0.0012	0.00041
Xylenes, total	1,000	990		0.00033	U	0.0011	0.00033	0.00043	U	0.0015	0.00043	0.00048	U	0.0016	0.00048	0.00036	U	0.0012	0.00036	0.00047	U	0.0016	0.00047	0.00036	U	0.0012	0.00036
General Chemistry																											
Solids, total	--	--		85.9		0.1	-	84.5		0.1	-	84.1		0.1	-	89.1		0.1	-	86.8		0.1	-	87.8		0.1	-

Table 8
Summary of Sampling Results - Onsite Soil Stockpile
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Nonresidential Soil Statewide Health Standard Vapor Intrusion Screening Values Criteria	Sample ID: / Laboratory ID: / Collection Date: / Sample Depth: / Sample Matrix:	B-9 (7.5-8) L2158502-07 10/25/2021 7.5-8 SOIL				B-12 (4.5-5) L2158502-08 10/25/2021 4.5-5 SOIL				B-12 (5.5-6) L2158502-09 10/25/2021 5.5-6 SOIL				B-13 (4.5-5) L2158502-10 10/25/2021 4.5-5 SOIL				B-14 (9.5-10) L2158502-11 10/25/2021 9.5-10 SOIL				B-15 (12-12.5) L2158502-12 10/25/2021 12-12.5 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
1,1,1-Trichloroethane	20	7.4		0.00027	U	0.00081	0.00027	0.00028	U	0.00084	0.00028	0.00027	U	0.00081	0.00027	0.00017	U	0.00051	0.00017	0.0002	U	0.0006	0.0002	0.0002	U	0.0006	0.0002
1,1,2,2-Tetrachloroethane	0.43	0.13		0.00027	U	0.00081	0.00027	0.00028	U	0.00084	0.00028	0.00027	U	0.00081	0.00027	0.00017	U	0.00051	0.00017	0.0002	U	0.0006	0.0002	0.0002	U	0.0006	0.0002
1,1,2-Trichloro-1,2,2-Trifluoroethane	10,000	10000		0.0011	U	0.0065	0.0011	0.0012	U	0.0067	0.0012	0.0011	U	0.0064	0.0011	0.00071	U	0.0041	0.00071	0.00083	U	0.0048	0.00083	0.00084	U	0.0048	0.00084
1,1,2-Trichloroethane	0.5	0.15		0.00043	U	0.0016	0.00043	0.00045	U	0.0017	0.00045	0.00043	U	0.0016	0.00043	0.00027	U	0.001	0.00027	0.00032	U	0.0012	0.00032	0.00032	U	0.0012	0.00032
1,1-Dichloroethane	16	3.9		0.00023	U	0.0016	0.00023	0.00024	U	0.0017	0.00024	0.00023	U	0.0016	0.00023	0.00015	U	0.001	0.00015	0.00017	U	0.0012	0.00017	0.00017	U	0.0012	0.00017
1,1-Dichloroethene	0.7	0.19		0.00038	U	0.0016	0.00038	0.0004	U	0.0017	0.0004	0.00038	U	0.0016	0.00038	0.00024	U	0.001	0.00024	0.00028	U	0.0012	0.00028	0.00029	U	0.0012	0.00029
1,2,3-Trichlorobenzene	--	--		0.00052	U	0.0032	0.00052	0.00054	U	0.0034	0.00054	0.00052	U	0.0032	0.00052	0.00033	U	0.002	0.00033	0.00038	U	0.0024	0.00038	0.00039	U	0.0024	0.00039
1,2,4-Trichlorobenzene	27	27		0.00044	U	0.0032	0.00044	0.00046	U	0.0034	0.00046	0.00044	U	0.0032	0.00044	0.00028	U	0.002	0.00028	0.00032	U	0.0024	0.00032	0.00033	U	0.0024	0.00033
1,2-Dibromo-3-chloropropane	0.02	0.0092		0.0016	U	0.0048	0.0016	0.0017	U	0.005	0.0017	0.0016	U	0.0048	0.0016	0.001	U	0.0031	0.001	0.0012	U	0.0036	0.0012	0.0012	U	0.0036	0.0012
1,2-Dibromoethane	0.005	0.0013		0.00047	U	0.00081	0.00047	0.00049	U	0.00084	0.00049	0.00047	U	0.00081	0.00047	0.0003	U	0.00051	0.0003	0.00035	U	0.0006	0.00035	0.00035	U	0.0006	0.00035
1,2-Dichlorobenzene	60	59		0.00059	J	0.0032	0.00023	0.00024	U	0.0034	0.00024	0.00023	U	0.0032	0.00023	0.00015	U	0.002	0.00015	0.00017	U	0.0024	0.00017	0.00017	U	0.0024	0.00017
1,2-Dichloroethane	0.5	0.1		0.00042	U	0.0016	0.00042	0.00043	U	0.0017	0.00043	0.00041	U	0.0016	0.00041	0.00026	U	0.001	0.00026	0.00031	U	0.0012	0.00031	0.00031	U	0.0012	0.00031
1,2-Dichloroethene, total	--	--		0.00022	U	0.0016	0.00022	0.00023	U	0.0017	0.00023	0.00022	U	0.0016	0.00022	0.00014	U	0.001	0.00014	0.00016	U	0.0012	0.00016	0.00016	U	0.0012	0.00016
1,2-Dichloropropane	0.5	0.11		0.0002	U	0.0016	0.0002	0.00021	U	0.0017	0.00021	0.0002	U	0.0016	0.0002	0.00013	U	0.001	0.00013	0.00015	U	0.0012	0.00015	0.00015	U	0.0012	0.00015
1,3-Dichlorobenzene	61	--		0.00024	U	0.0032	0.00024	0.00025	U	0.0034	0.00025	0.00024	U	0.0032	0.00024	0.00015	U	0.002	0.00015	0.00018	U	0.0024	0.00018	0.00018	U	0.0024	0.00018
1,3-Dichloropropene, total	2.7	0.48		0.00026	U	0.00081	0.00026	0.00026	U	0.00084	0.00026	0.00025	U	0.00081	0.00025	0.00016	U	0.00051	0.00016	0.00019	U	0.0006	0.00019	0.00019	U	0.0006	0.00019
1,4-Dichlorobenzene	10	10		0.00028	U	0.0032	0.00028	0.00029	U	0.0034	0.00029	0.00028	U	0.0032	0.00028	0.00018	U	0.002	0.00018	0.0002	U	0.0024	0.0002	0.00021	U	0.0024	0.00021
1,4-Dioxane	2.7	9		0.057	U	0.13	0.057	0.059	U	0.13	0.059	0.056	U	0.13	0.056	0.036	U	0.082	0.036	0.042	U	0.095	0.042	0.042	U	0.096	0.042
2-Butanone	400	1100		0.0036	U	0.016	0.0036	0.0037	U	0.017	0.0037	0.0036	U	0.016	0.0036	0.0023	U	0.01	0.0023	0.0026	U	0.012	0.0026	0.0027	U	0.012	0.0027
2-Hexanone	26	6.4		0.0019	U	0.016	0.0019	0.002	U	0.017	0.002	0.0019	U	0.016	0.0019	0.0012	U	0.01	0.0012	0.0014	U	0.012	0.0014	0.0014	U	0.012	0.0014
4-Methyl-2-pentanone	780	210		0.0021	U	0.016	0.0021	0.0022	U	0.017	0.0022	0.0021	U	0.016	0.0021	0.0013	U	0.01	0.0013	0.0015	U	0.012	0.0015	0.0015	U	0.012	0.0015
Acetone	8,800	4700		0.021	J	0.04	0.016	0.033	J	0.042	0.017	0.016	U	0.04	0.016	0.01	U	0.026	0.01	0.012	U	0.03	0.012	0.012	U	0.03	0.012
Benzene	0.5	0.13		0.00027	U	0.00081	0.00027	0.00028	U	0.00084	0.00028	0.00027	U	0.00081	0.00027	0.00017	U	0.00051	0.00017	0.0002	U	0.0006	0.0002	0.0002	U	0.0006	0.0002
Bromochloromethane	9	1.6		0.00033	U	0.0032	0.00033	0.00034	U	0.0034	0.00034	0.00033	U	0.0032	0.00033	0.00021	U	0.002	0.00021	0.00024	U	0.0024	0.00024	0.00025	U	0.0024	0.00025
Bromodichloromethane	8	2.7		0.00018	U	0.00081	0.00018	0.00018	U	0.00084	0.00018	0.00018	U	0.00081	0.00018	0.00011	U	0.00051	0.00011	0.00013	U	0.0006	0.00013	0.00013	U	0.0006	0.00013
Bromoform	8	3.5		0.0004	U	0.0065	0.0004	0.00041	U	0.0067	0.00041	0.0004	U	0.0064	0.0004	0.00025	U	0.0041	0.00025	0.00029	U	0.0048	0.00029	0.0003	U	0.0048	0.0003
Bromomethane	1	0.54		0.00094	U	0.0032	0.00094	0.00098	U	0.0034	0.00098	0.00094	U	0.0032	0.00094	0.0006	U	0.002	0.0006	0.00069	U	0.0024	0.00069	0.0007	U	0.0024	0.0007
Carbon disulfide	620	530		0.0074	U	0.016	0.0074	0.0076	U	0.017	0.0076	0.0073	U	0.016	0.0073	0.0047	U	0.01	0.0047	0.0054	U	0.012	0.0054	0.0055	U	0.012	0.0055
Carbon tetrachloride	0.5	0.26		0.00037	U	0.0016	0.00037	0.00039	U	0.0017	0.00039	0.00037	U	0.0016	0.00037	0.00024	U	0.001	0.00024	0.00027	U	0.0012	0.00027	0.00028	U	0.0012	0.00028
Chlorobenzene	10	6.1		0.0002	U	0.00081	0.0002	0.00021	U	0.00084	0.00021	0.0002	U	0.00081	0.0002	0.00013	U	0.00051	0.00013	0.00015	U	0.0006	0.00015	0.00015	U	0.0006	0.00015
Chloroethane	8,800	1900		0.00073	U	0.0032	0.00073	0.00076	U	0.0034	0.00076	0.00073	U	0.0032	0.00073	0.00046	U	0.002	0.00046	0.00054	U	0.0024	0.00054	0.00054	U	0.0024	0.00054
Chloroform	8	2		0.00041	J	0.0024	0.00023	0.0004	J	0.0025	0.00024	0.00043	J	0.0024	0.00022	0.00028	J	0.0015	0.00014	0.00028	J	0.0018	0.00017	0.00032	J	0.0018	0.00017
Chloromethane	3	0.38		0.0015	U	0.0065	0.0015	0.0016	U	0.0067	0.0016	0.0015	U	0.0064	0.0015	0.00096	U	0.0041	0.00096	0.0011	U	0.0048	0.0011	0.0011	U	0.0048	0.0011
cis-1,2-Dichloroethene	7	--		0.00028	U	0.0016	0.00028	0.00029	U	0.0017	0.00029	0.00028	U	0.0016	0.00028	0.00018	U	0.001	0.00018	0.00021	U	0.0012	0.00021	0.00021	U	0.0012	0.00021
cis-1,3-Dichloropropene	3.4	--		0.00026	U	0.00081	0.00026	0.00026	U	0.00084	0.00026	0.00025	U	0.00081	0.00025	0.00016	U	0.00051	0.00016	0.00019	U	0.0006	0.00019	0.00019	U	0.0006	0.00019
Cyclohexane	6,900	6900		0.00088	U	0.016	0.00088	0.00091	U	0.017	0.00091	0.00088	U	0.016	0.00088	0.00056	U	0.01	0.00056	0.00065	U	0.012	0.00065	0.00066	U	0.012	0.00066
Dibromochloromethane	8	2.5		0.00023	U	0.0016	0.00023	0.00024	U	0.0017	0.00024	0.00022	U	0.0016	0.00022	0.00014	U	0.001	0.00014	0.00017	U	0.0012	0.00017	0.00017	U	0.0012	0.00017
Dichlorodifluoromethane	100	100		0.0015	U	0.016	0.0015	0.0015	U	0.017	0.0015	0.0015	U	0.016	0.0015	0.00094	U	0.01	0.00094	0.0011	U	0.012	0.0011	0.0011	U	0.012	0.0011
Ethylbenzene	70	46		0.00023	U	0.0016	0.00023	0.001	J	0.0017	0.00024	0.00023	U	0.0016	0.00023	0.00014	U	0.001	0.00014	0.00017	U	0.0012	0.00017	0.00017	U	0.0012	0.00017
Isopropylbenzene	2,500	2500		0.00018	U	0.0016	0.00018	0.00018	U	0.0017	0.00018	0.00018	U	0.0016	0.00018	0.00011	U	0.001	0.00011	0.00013	U	0.0012	0.00013	0.00013	U	0.0012	0.00013
Methyl acetate	9,700	--		0.0015	U	0.0065	0.0015	0.0016	U	0.0067	0.0016	0.0015	U	0.0064	0.0015	0.00098	U	0.0041	0.00098	0.0011	U	0.0048	0.0011	0.0011	U	0.0048	0.0011
Methyl cyclohexane	--	--		0.00098	U	0.0065	0.00098	0.001	U	0.0067	0.001	0.00097	U	0.0064	0.00097	0.00062	U	0.0041	0.00062	0.00072	U	0.0048	0.00072	0.00073	U	0.0048	0.00073
Methyl tert-butyl ether	2	1.4		0.00032	U	0.0032	0.00032	0.00034	U	0.0034	0.00034	0.00032	U	0.0032	0.00032	0.00021	U	0.002	0.00021	0.00024	U	0.0024	0.00024	0.00024	U	0.0024	0.00024
Methylene chloride	0.5	1.5		0.0037	U	0.0081	0.0037	0.0038	U	0.0084	0.0038	0.0037	U	0.0081	0.0037	0.0024	U	0.0051	0.0024	0.0027	U	0.006	0.0027	0.0028	U	0.006	0.0028
o-Xylene	1,000	--		0.00047	U	0.0016	0.00047	0.00049	U	0.0017	0.00049	0.00047	U	0.0016	0.00047	0.0003	U	0.001	0.0003	0.00035	U	0.0012	0.00035	0.00035	U	0.0012	0.00035
p/m-Xylene	1,000	--		0.00091	U	0.0032	0.00091	0.00094	U	0.0034	0.00094	0.0009	U	0.0032	0.0009	0.00057	U	0.002	0.00057	0.00067	U	0.0024	0.00067	0.00068	U	0.0024	0.00068
Styrene	24	79		0.00032	U	0.0016	0.00032	0.00033	U	0.0017	0.00033	0.00032	U	0.0016	0.00032	0.0002	U	0.001	0.0002	0.00023	U	0.0012	0.00023	0.00024	U	0.0012	0.00024
Tetrachloroethene	0.5	0.43		0.00032	U	0.00081	0.00032	0.00033	U	0.00084	0.00033	0.00032	U	0.00081	0.00032	0.0002	U	0.00051	0.0002	0.00023	U	0.0006	0.00023	0.00024	U	0.0006	0.00024
Toluene	100	44		0.00088	U	0.0016	0.00088	0.0013	J	0.0017	0.00091	0.00088	U	0.0016	0.00088	0.00056	U	0.001	0.00056	0.00065	U	0.0012	0.00065	0.00065	U	0.0012	0.00065
trans-1,2-Dichloroethene	10	2.3		0.00022	U	0.0024	0.00022	0.00023	U	0.0025	0.00023	0.00022	U	0.0024	0.00022	0.00014	U	0.0015	0.00014	0.00016	U	0.0018	0.00016	0.00016	U	0.0018	0.00016
trans-1,3-Dichloropropene	3.4	--		0.00044	U	0.0016	0.00044	0.00046	U	0.0017	0.00046	0.00044	U	0.0016	0.00044	0.00028	U	0.001	0.00028	0.00032	U	0.0012	0.00032	0.00033	U	0.0012	0.00033
Trichloroethene	0.5	0.17		0.00022	U	0.00081	0.00022	0.00023	U	0.00084	0.00023	0.00022	U	0.00081	0.00022	0.00014	U	0.00051	0.00014	0.00016	U	0.0006	0.00016	0.00016	U	0.0006	0.00016
Trichlorofluoromethane	200	87		0.0011	U	0.0065	0.0011	0.0012	U	0.0067	0.0012	0.0011	U	0.0064	0.0011	0.00071	U	0.0041	0.00071	0.00083	U	0.0048	0.00083	0.00084	U	0.0048	0.00084
Vinyl chloride	0.2	0.027		0.00054	U	0.0016	0.00054	0.00056	U	0.0017	0.00056	0.00054	U	0.0016	0.00054	0.00034	U	0.001	0.00034	0.0004	U	0.0012	0.0004	0.0004	U	0.0012	0.0004
Xylenes, total	1,000	990		0.00047	U	0.0016	0.00047	0.00049	U	0.0017	0.00049	0.00047	U	0.0016	0.00047	0.0003	U	0.001	0.0003	0.00035	U	0.0012	0.00035	0.00035	U	0.0012	0.00035
General Chemistry																											
Solids, total	--	--		87.3		0.1	-	87.8		0.1	-	90.4		0.1	-	88.4		0.1	-	88		0.1	-	86.4		0.1	-

Table 8
Summary of Sampling Results - Onsite Soil Stockpile
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Notes:
1. Samples were collected by Arcadis U.S., Inc. on behalf of Alliance 51st Street LLC.
2. Concentrations are reported in milligrams per kilogram.
3. There were no exceedances of the Representative Pennsylvania Soil MSCs.

Acronyms and Abbreviations:
' = foot/feet
- = data not available
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
Conc = concentration
GW = groundwater
ID = identification
MDL = method detection limit
MSC = Medium Specific Concentration
Q = qualifier
RL = reporting limit

Laboratory Qualifiers:
J = The compound was detected; however, the concentration is below the laboratory method detection limit, so this concentration is estimated.
U = Compound was undetected at the listed laboratory method detection limit.

Table 9
Summary of Test Pit Sampling Results - Onsite Soil Stockpile
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Nonresidential Soil Statewide Health Standard Vapor Intrusion Screening Values Criteria	Sample ID: Laboratory ID: Collection Date: Sample Depth: Sample Matrix:	TP-1 L2158501-01 10/25/2021 SOIL				TP-5 L2158501-02 10/25/2021 SOIL				TP-11 L2158501-03 10/25/2021 SOIL				COMP-13 L2158501-04 10/25/2021 SOIL				COMP-14 L2158501-05 10/25/2021 SOIL				COMP-15 L2158501-06 10/25/2021 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
1,1,1-Trichloroethane	20	7		0.0002	U	0.00058	0.0002	0.00017	U	0.00051	0.00017	0.00019	U	0.00056	0.00019	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.43	0.13		0.00019	U	0.00058	0.00019	0.00017	U	0.00051	0.00017	0.00019	U	0.00056	0.00019	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	10,000	10,000		0.00081	U	0.0047	0.00081	0.0007	U	0.0041	0.0007	0.00078	U	0.0045	0.00078	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	0.5	0.2		0.00031	U	0.0012	0.00031	0.00027	U	0.001	0.00027	0.0003	U	0.0011	0.0003	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	16	4		0.00017	U	0.0012	0.00017	0.00015	U	0.001	0.00015	0.00016	U	0.0011	0.00016	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	0.7	0.2		0.00028	U	0.0012	0.00028	0.00024	U	0.001	0.00024	0.00027	U	0.0011	0.00027	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	--	--		0.00038	U	0.0023	0.00038	0.00033	U	0.002	0.00033	0.00036	U	0.0022	0.00036	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	27	27		0.00032	U	0.0023	0.00032	0.00028	U	0.002	0.00028	0.0003	U	0.0022	0.0003	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	0.02	0.01		0.0012	U	0.0035	0.0012	0.001	U	0.003	0.001	0.0011	U	0.0034	0.0011	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	0.005	0.001		0.00034	U	0.00058	0.00034	0.0003	U	0.00051	0.0003	0.00033	U	0.00056	0.00033	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	60	59		0.00017	U	0.0023	0.00017	0.00015	U	0.002	0.00015	0.00016	U	0.0022	0.00016	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.5	0.1		0.0003	U	0.0012	0.0003	0.00026	U	0.001	0.00026	0.00029	U	0.0011	0.00029	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene, total	--	--		0.00016	U	0.0012	0.00016	0.00014	U	0.001	0.00014	0.00015	U	0.0011	0.00015	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	0.5	0.1		0.00015	U	0.0012	0.00015	0.00013	U	0.001	0.00013	0.00014	U	0.0011	0.00014	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	61	--		0.00017	U	0.0023	0.00017	0.00015	U	0.002	0.00015	0.00016	U	0.0022	0.00016	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene, total	2.7	0.5		0.00018	U	0.00058	0.00018	0.00016	U	0.00051	0.00016	0.00018	U	0.00056	0.00018	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	10	10		0.0002	U	0.0023	0.0002	0.00017	U	0.002	0.00017	0.00019	U	0.0022	0.00019	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	2.7	9.0		0.041	U	0.093	0.041	0.036	U	0.081	0.036	0.039	U	0.09	0.039	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	400	1,100		0.0026	U	0.012	0.0026	0.0022	U	0.01	0.0022	0.0025	U	0.011	0.0025	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	26	6		0.0014	U	0.012	0.0014	0.0012	U	0.01	0.0012	0.0013	U	0.011	0.0013	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	780	210		0.0015	U	0.012	0.0015	0.0013	U	0.01	0.0013	0.0014	U	0.011	0.0014	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	8,800	4,700		0.012	U	0.029	0.012	0.01	U	0.025	0.01	0.011	U	0.028	0.011	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	0.5	0.1		0.00019	U	0.00058	0.00019	0.00017	U	0.00051	0.00017	0.00019	U	0.00056	0.00019	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	9	2		0.00024	U	0.0023	0.00024	0.00021	U	0.002	0.00021	0.00023	U	0.0022	0.00023	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	8	3		0.00013	U	0.00058	0.00013	0.00011	U	0.00051	0.00011	0.00012	U	0.00056	0.00012	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	8	4		0.00029	U	0.0047	0.00029	0.00025	U	0.0041	0.00025	0.00028	U	0.0045	0.00028	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	1	1		0.00068	U	0.0023	0.00068	0.00059	U	0.002	0.00059	0.00065	U	0.0022	0.00065	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	620	530		0.0053	U	0.012	0.0053	0.0046	U	0.01	0.0046	0.0051	U	0.011	0.0051	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	0.5	0.3		0.00027	U	0.0012	0.00027	0.00023	U	0.001	0.00023	0.00026	U	0.0011	0.00026	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	10	6		0.00015	U	0.00058	0.00015	0.00013	U	0.00051	0.00013	0.00014	U	0.00056	0.00014	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	8,800	1,900		0.00053	U	0.0023	0.00053	0.00046	U	0.002	0.00046	0.00051	U	0.0022	0.00051	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	8	2		0.00024	J	0.0018	0.00016	0.00023	J	0.0015	0.00014	0.00016	J	0.0017	0.00016	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	3	0		0.0011	U	0.0047	0.0011	0.00095	U	0.0041	0.00095	0.001	U	0.0045	0.001	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	7	--		0.0002	U	0.0012	0.0002	0.00018	U	0.001	0.00018	0.0002	U	0.0011	0.0002	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	3.4	--		0.00018	U	0.00058	0.00018	0.00016	U	0.00051	0.00016	0.00018	U	0.00056	0.00018	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	6,900	6,900		0.00064	U	0.012	0.00064	0.00055	U	0.01	0.00055	0.00061	U	0.011	0.00061	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	8	3		0.00016	U	0.0012	0.00016	0.00014	U	0.001	0.00014	0.00016	U	0.0011	0.00016	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	100	100		0.0011	U	0.012	0.0011	0.00093	U	0.01	0.00093	0.001	U	0.011	0.001	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	70	46		0.00016	U	0.0012	0.00016	0.00014	U	0.001	0.00014	0.00016	U	0.0011	0.00016	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	2,500	2,500		0.00013	U	0.0012	0.00013	0.00011	U	0.001	0.00011	0.00012	U	0.0011	0.00012	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	9,700	--		0.0011	U	0.0047	0.0011	0.00096	U	0.0041	0.00096	0.0011	U	0.0045	0.0011	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	--	--		0.0007	U	0.0047	0.0007	0.00061	U	0.0041	0.00061	0.00068	U	0.0045	0.00068	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	2	1		0.00023	U	0.0023	0.00023	0.0002	U	0.002	0.0002	0.00022	U	0.0022	0.00022	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	0.5	1.5		0.0027	U	0.0058	0.0027	0.0023	U	0.0051	0.0023	0.0026	U	0.0056	0.0026	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	1,000	--		0.00034	U	0.0012	0.00034	0.0003	U	0.001	0.0003	0.00033	U	0.0011	0.00033	-	-	-	-	-	-	-	-	-	-	-	-
p/m-Xylene	1,000	--		0.00065	U	0.0023	0.00065	0.00057	U	0.002	0.00057	0.00063	U	0.0022	0.00063	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	24	79		0.00023	U	0.0012	0.00023	0.0002	U	0.001	0.0002	0.00022	U	0.0011	0.00022	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	0.5	0.4		0.00023	U	0.00058	0.00023	0.0002	U	0.00051	0.0002	0.00022	U	0.00056	0.00022	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	100	44		0.00063	U	0.0012	0.00063	0.00055	U	0.001	0.00055	0.00061	U	0.0011	0.00061	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	10	2		0.00016	U	0.0018	0.00016	0.00014	U	0.0015	0.00014	0.00015	U	0.0017	0.00015	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	3.4	--		0.00032	U	0.0012	0.00032	0.00028	U	0.001	0.00028	0.00031	U	0.0011	0.00031	-	-	-	-	-	-	-	-	-	-	-	-

Table 9
Summary of Test Pit Sampling Results - Onsite Soil Stockpile
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Nonresidential Soil Statewide Health Standard Vapor Intrusion Screening Values Criteria	Sample ID: / Laboratory ID: / Collection Date: / Sample Depth: / Sample Matrix:	TP-1 L2158501-01 10/25/2021 SOIL				TP-5 L2158501-02 10/25/2021 SOIL				TP-11 L2158501-03 10/25/2021 SOIL				COMP-13 L2158501-04 10/25/2021 SOIL				COMP-14 L2158501-05 10/25/2021 SOIL				COMP-15 L2158501-06 10/25/2021 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Trichloroethene	0.5	0.2		0.00016	U	0.00058	0.00016	0.00014	U	0.00051	0.00014	0.00015	U	0.00056	0.00015	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	200	87		0.00081	U	0.0047	0.00081	0.00071	U	0.0041	0.00071	0.00078	U	0.0045	0.00078	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	0.2	0.0		0.00039	U	0.0012	0.00039	0.00034	U	0.001	0.00034	0.00038	U	0.0011	0.00038	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, total	1,000	990		0.00034	U	0.0012	0.00034	0.0003	U	0.001	0.0003	0.00033	U	0.0011	0.00033	-	-	-	-	-	-	-	-	-	-	-	-
Semivolatile Organic Compounds																											
1,2,4,5-Tetrachlorobenzene	13	--		-		-	-	-		-	-	-		-	-	0.02	U	0.19	0.02	0.02	U	0.19	0.02	0.02	U	0.19	0.02
1,4-Dioxane	2.7	9		-		-	-	-		-	-	-		-	-	0.0087	U	0.029	0.0087	0.0087	U	0.029	0.0087	0.0086	U	0.028	0.0086
2,3,4,6-Tetrachlorophenol	4,500	--		-		-	-	-		-	-	-		-	-	0.039	U	0.19	0.039	0.038	U	0.19	0.038	0.038	U	0.19	0.038
2,4,5-Trichlorophenol	5,900	--		-		-	-	-		-	-	-		-	-	0.037	U	0.19	0.037	0.036	U	0.19	0.036	0.036	U	0.19	0.036
2,4,6-Trichlorophenol	28	--		-		-	-	-		-	-	-		-	-	0.036	U	0.12	0.036	0.036	U	0.11	0.036	0.036	U	0.11	0.036
2,4-Dichlorophenol	2	--		-		-	-	-		-	-	-		-	-	0.031	U	0.17	0.031	0.031	U	0.17	0.031	0.03	U	0.17	0.03
2,4-Dimethylphenol	190	--		-		-	-	-		-	-	-		-	-	0.063	U	0.19	0.063	0.063	U	0.19	0.063	0.062	U	0.19	0.062
2,4-Dinitrophenol	19	--		-		-	-	-		-	-	-		-	-	0.089	U	0.92	0.089	0.089	U	0.92	0.089	0.087	U	0.9	0.087
2,4-Dinitrotoluene	0.88	--		-		-	-	-		-	-	-		-	-	0.038	U	0.19	0.038	0.038	U	0.19	0.038	0.038	U	0.19	0.038
2,6-Dinitrotoluene	0.18	--		-		-	-	-		-	-	-		-	-	0.033	U	0.19	0.033	0.033	U	0.19	0.033	0.032	U	0.19	0.032
2-Chloronaphthalene	17,000	--		-		-	-	-		-	-	-		-	-	0.019	U	0.19	0.019	0.019	U	0.19	0.019	0.019	U	0.19	0.019
2-Chlorophenol	4.4	--		-		-	-	-		-	-	-		-	-	0.023	U	0.19	0.023	0.022	U	0.19	0.022	0.022	U	0.19	0.022
2-Methylnaphthalene	100	100		-		-	-	-		-	-	-		-	-	0.025	J	0.23	0.023	0.023	U	0.23	0.023	0.023	U	0.22	0.023
2-Methylphenol	490	--		-		-	-	-		-	-	-		-	-	0.03	U	0.19	0.03	0.03	U	0.19	0.03	0.029	U	0.19	0.029
2-Nitroaniline	0.044	--		-		-	-	-		-	-	-		-	-	***0.037***	U	0.19	0.037	***0.037***	U	0.19	0.037	***0.036***	U	0.19	0.036
2-Nitrophenol	78	17		-		-	-	-		-	-	-		-	-	0.072	U	0.41	0.072	0.072	U	0.41	0.072	0.07	U	0.4	0.07
3,3'-Dichlorobenzidine	33	--		-		-	-	-		-	-	-		-	-	0.051	U	0.19	0.051	0.051	U	0.19	0.051	0.05	U	0.19	0.05
3-Methylphenol/4-Methylphenol	49	--		-		-	-	-		-	-	-		-	-	0.03	U	0.28	0.03	0.03	U	0.28	0.03	0.029	U	0.27	0.029
3-Nitroaniline	--	--		-		-	-	-		-	-	-		-	-	0.036	U	0.19	0.036	0.036	U	0.19	0.036	0.035	U	0.19	0.035
4,6-Dinitro-o-cresol	--	--		-		-	-	-		-	-	-		-	-	0.092	U	0.5	0.092	0.092	U	0.5	0.092	0.09	U	0.49	0.09
4-Bromophenyl phenyl ether	--	--		-		-	-	-		-	-	-		-	-	0.029	U	0.19	0.029	0.029	U	0.19	0.029	0.029	U	0.19	0.029
4-Chloroaniline	1.8	--		-		-	-	-		-	-	-		-	-	0.035	U	0.19	0.035	0.035	U	0.19	0.035	0.034	U	0.19	0.034
4-Chlorophenyl phenyl ether	--	--		-		-	-	-		-	-	-		-	-	0.02	U	0.19	0.02	0.02	U	0.19	0.02	0.02	U	0.19	0.02
4-Nitroaniline	14	--		-		-	-	-		-	-	-		-	-	0.079	U	0.19	0.079	0.079	U	0.19	0.079	0.078	U	0.19	0.078
4-Nitrophenol	6	--		-		-	-	-		-	-	-		-	-	0.078	U	0.27	0.078	0.078	U	0.27	0.078	0.077	U	0.26	0.077
Acenaphthene	4,700	--		-		-	-	-		-	-	-		-	-	0.057	J	0.15	0.02	0.02	U	0.15	0.02	0.019	U	0.15	0.019
Acenaphthylene	6,600	--		-		-	-	-		-	-	-		-	-	0.03	U	0.15	0.03	0.029	U	0.15	0.029	0.029	U	0.15	0.029
Acetophenone	970	--		-		-	-	-		-	-	-		-	-	0.024	U	0.19	0.024	0.024	U	0.19	0.024	0.023	U	0.19	0.023
Anthracene	350	--		-		-	-	-		-	-	-		-	-	0.12		0.12	0.037	0.037	U	0.11	0.037	0.044	J	0.11	0.037
Atrazine	0.3	--		-		-	-	-		-	-	-		-	-	0.067	U	0.15	0.067	0.067	U	0.15	0.067	0.066	U	0.15	0.066
Benzaldehyde	--	--		-		-	-	-		-	-	-		-	-	0.052	U	0.25	0.052	0.052	U	0.25	0.052	0.051	U	0.25	0.051
Benzo(a)anthracene	130	--		-		-	-	-		-	-	-		-	-	0.36		0.12	0.022	0.15		0.11	0.022	0.18		0.11	0.021
Benzo(a)pyrene	46	--		-		-	-	-		-	-	-		-	-	0.29		0.15	0.047	0.13	J	0.15	0.046	0.16		0.15	0.046
Benzo(b)fluoranthene	76	--		-		-	-	-		-	-	-		-	-	0.4		0.12	0.032	0.17		0.11	0.032	0.21		0.11	0.032
Benzo(ghi)perylene	180	--		-		-	-	-		-	-	-		-	-	0.18		0.15	0.022	0.084	J	0.15	0.022	0.098	J	0.15	0.022
Benzo(k)fluoranthene	76	--		-		-	-	-		-	-	-		-	-	0.13		0.12	0.031	0.068	J	0.11	0.03	0.081	J	0.11	0.03
Biphenyl	1.5	--		-		-	-	-		-	-	-		-	-	0.044	U	0.44	0.044	0.044	U	0.44	0.044	0.044	U	0.43	0.044
Bis(2-chloroethoxy)methane	29	--		-		-	-	-		-	-	-		-	-	0.019	U	0.21	0.019	0.019	U	0.21	0.019	0.019	U	0.2	0.019
Bis(2-chloroisopropyl)ether	30	8		-		-	-	-		-	-	-		-	-	0.033	U	0.23	0.033	0.033	U	0.23	0.033	0.032	U	0.22	0.032
Bis(2-ethylhexyl)phthalate	130	--		-		-	-	-		-	-	-		-	-	0.066	U	0.19	0.066	0.066	U	0.19	0.066	0.065	U	0.19	0.065
Butyl benzyl phthalate	10,000	--		-		-	-	-		-	-	-		-	-	0.048	U	0.19	0.048	0.048	U	0.19	0.048	0.047	U	0.19	0.047
Caprolactam	--	--		-		-	-	-		-	-	-		-	-	0.058	U	0.19	0.058	0.058	U	0.19	0.058	0.057	U	0.19	0.057
Carbazole	89	--		-		-	-	-		-	-	-		-	-	0.063	J	0.19	0.019	0.021	J	0.19	0.018	0.022	J	0.19	0.018
Chrysene	230	--		-		-	-	-		-	-	-		-	-	0.33		0.12	0.02	0.14		0.11	0.02	0.17		0.11	0.02
Di-n-butylphthalate	4,000	--		-		-	-	-		-	-	-		-	-	0.036	U	0.19	0.036	0.036	U	0.19	0.036	0.036	U	0.19	0.036
Di-n-octylphthalate	10,000	--		-		-	-	-		-	-	-		-	-	0.065	U	0.19	0.065	0.065	U	0.19	0.065	0.064	U	0.19	0.064
Dibenzo(a,h)anthracene	22	--		-		-	-	-		-	-	-		-	-	0.047	J	0.12	0.022	0.023	J	0.11	0.022	0.025	J	0.11	0.022

Table 9
Summary of Test Pit Sampling Results - Onsite Soil Stockpile
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Nonresidential Soil Statewide Health Standard Vapor Intrusion Screening Values Criteria	Sample ID: / Laboratory ID: / Collection Date: / Sample Depth: / Sample Matrix:	TP-1 L2158501-01 10/25/2021 SOIL				TP-5 L2158501-02 10/25/2021 SOIL				TP-11 L2158501-03 10/25/2021 SOIL				COMP-13 L2158501-04 10/25/2021 SOIL				COMP-14 L2158501-05 10/25/2021 SOIL				COMP-15 L2158501-06 10/25/2021 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Dibenzofuran	250	--		-		-	-	-		-	-	-		-	-	0.03	J	0.19	0.018	0.018	U	0.19	0.018	0.018	U	0.19	0.018
Diethyl phthalate	7,800	--		-		-	-	-		-	-	-		-	-	0.018	U	0.19	0.018	0.018	U	0.19	0.018	0.017	U	0.19	0.017
Dimethyl phthalate	--	--		-		-	-	-		-	-	-		-	-	0.04	U	0.19	0.04	0.04	U	0.19	0.04	0.039	U	0.19	0.039
Fluoranthene	3,200	--		-		-	-	-		-	-	-		-	-	0.72		0.12	0.022	0.28		0.11	0.022	0.34		0.11	0.022
Fluorene	3,800	--		-		-	-	-		-	-	-		-	-	0.058	J	0.19	0.019	0.018	U	0.19	0.018	0.018	U	0.19	0.018
Hexachlorobenzene	0.96	--		-		-	-	-		-	-	-		-	-	0.021	U	0.12	0.021	0.021	U	0.11	0.021	0.021	U	0.11	0.021
Hexachlorobutadiene	42	--		-		-	-	-		-	-	-		-	-	0.028	U	0.19	0.028	0.028	U	0.19	0.028	0.027	U	0.19	0.027
Hexachlorocyclopentadiene	91	--		-		-	-	-		-	-	-		-	-	0.17	U	0.55	0.17	0.17	U	0.55	0.17	0.17	U	0.54	0.17
Hexachloroethane	0.56	--		-		-	-	-		-	-	-		-	-	0.031	U	0.15	0.031	0.031	U	0.15	0.031	0.03	U	0.15	0.03
Indeno(1,2,3-cd)pyrene	76	--		-		-	-	-		-	-	-		-	-	0.2		0.15	0.027	0.095	J	0.15	0.027	0.1	J	0.15	0.026
Isophorone	10	--		-		-	-	-		-	-	-		-	-	0.025	U	0.17	0.025	0.025	U	0.17	0.025	0.024	U	0.17	0.024
Naphthalene	25	25		-		-	-	-		-	-	-		-	-	0.03	J	0.19	0.023	0.023	U	0.19	0.023	0.023	U	0.19	0.023
NDPA/DPA	15	--		-		-	-	-		-	-	-		-	-	0.022	U	0.15	0.022	0.022	U	0.15	0.022	0.021	U	0.15	0.021
Nitrobenzene	0.63	1.20		-		-	-	-		-	-	-		-	-	0.028	U	0.17	0.028	0.028	U	0.17	0.028	0.028	U	0.17	0.028
p-Chloro-m-cresol	2,000	--		-		-	-	-		-	-	-		-	-	0.028	U	0.19	0.028	0.028	U	0.19	0.028	0.028	U	0.19	0.028
Pentachlorophenol	5	--		-		-	-	-		-	-	-		-	-	0.042	U	0.15	0.042	0.042	U	0.15	0.042	0.041	U	0.15	0.041
Phenanthrene	10,000	--		-		-	-	-		-	-	-		-	-	0.49		0.12	0.023	0.15		0.11	0.023	0.19		0.11	0.023
Phenol	200	7,900		-		-	-	-		-	-	-		-	-	0.029	U	0.19	0.029	0.029	U	0.19	0.029	0.028	U	0.19	0.028
Pyrene	2,200	--		-		-	-	-		-	-	-		-	-	0.6		0.12	0.019	0.24		0.11	0.019	0.3		0.11	0.019
Semivolatile Organic Compounds - SIM																											
Bis(2-chloroethyl)ether	0.076	--		-		-	-	-		-	-	-		-	-	0.011	U	0.038	0.011	0.011	U	0.038	0.011	0.01	U	0.038	0.01
n-Nitrosodi-n-propylamine	0.013	--		-		-	-	-		-	-	-		-	-	0.01	U	0.038	0.01	0.01	U	0.038	0.01	0.0098	U	0.038	0.0098
Polychlorinated Biphenyls																											
Aroclor 1016	190	--		-		-	-	-		-	-	-		-	-	0.00334	U	0.0376	0.00334	0.00332	U	0.0374	0.00332	0.00336	U	0.0379	0.00336
Aroclor 1221	0.68	0.68		-		-	-	-		-	-	-		-	-	0.00376	U	0.0376	0.00376	0.00374	U	0.0374	0.00374	0.0038	U	0.0379	0.0038
Aroclor 1232	0.54	0.54		-		-	-	-		-	-	-		-	-	0.00796	U	0.0376	0.00796	0.00792	U	0.0374	0.00792	0.00803	U	0.0379	0.00803
Aroclor 1242	17	--		-		-	-	-		-	-	-		-	-	0.00506	U	0.0376	0.00506	0.00504	U	0.0374	0.00504	0.00511	U	0.0379	0.00511
Aroclor 1248	46	--		-		-	-	-		-	-	-		-	-	0.00564	U	0.0376	0.00564	0.00561	U	0.0374	0.00561	0.00568	U	0.0379	0.00568
Aroclor 1254	64	--		-		-	-	-		-	-	-		-	-	0.00411	U	0.0376	0.00411	0.00409	U	0.0374	0.00409	0.00414	U	0.0379	0.00414
Aroclor 1260	46	--		-		-	-	-		-	-	-		-	-	0.00694	U	0.0376	0.00694	0.00691	U	0.0374	0.00691	0.007	U	0.0379	0.007
Aroclor 1262	--	--		-		-	-	-		-	-	-		-	-	0.00477	U	0.0376	0.00477	0.00475	U	0.0374	0.00475	0.00481	U	0.0379	0.00481
Aroclor 1268	--	--		-		-	-	-		-	-	-		-	-	0.00389	U	0.0376	0.00389	0.00387	U	0.0374	0.00387	0.00392	U	0.0379	0.00392
PCBs, total	--	--		-		-	-	-		-	-	-		-	-	0.00334	U	0.0376	0.00334	0.00332	U	0.0374	0.00332	0.00336	U	0.0379	0.00336
Total Inorganics																											
Aluminum, total	--	--		-		-	-	-		-	-	-		-	-	11200		8.92	2.41	7940		9.3	2.51	10300		9	2.43
Antimony, total	27	--		-		-	-	-		-	-	-		-	-	0.339	U	4.46	0.339	0.354	U	4.65	0.354	0.342	U	4.5	0.342
Arsenic, total	29	--		-		-	-	-		-	-	-		-	-	2.38		0.892	0.185	1.92		0.93	0.194	1.73		0.9	0.187
Barium, total	8,200	--		-		-	-	-		-	-	-		-	-	120		0.892	0.155	89.5		0.93	0.162	118		0.9	0.157
Beryllium, total	320	--		-		-	-	-		-	-	-		-	-	0.776		0.446	0.029	0.437	J	0.465	0.031	0.504		0.45	0.03
Cadmium, total	38	--		-		-	-	-		-	-	-		-	-	0.57	J	0.892	0.087	0.447	J	0.93	0.091	0.504	J	0.9	0.088
Calcium, total	--	--		-		-	-	-		-	-	-		-	-	4090		8.92	3.12	2990		9.3	3.26	3020		9	3.15
Chromium, total	--	--		-		-	-	-		-	-	-		-	-	83.3		0.892	0.086	95.8		0.93	0.089	53		0.9	0.086
Cobalt, total	130	--		-		-	-	-		-	-	-		-	-	14.5		1.78	0.148	9.93		1.86	0.154	13.1		1.8	0.149
Copper, total	43,000	--		-		-	-	-		-	-	-		-	-	31.4		0.892	0.23	17.5		0.93	0.24	23		0.9	0.232
Iron, total	--	--		-		-	-	-		-	-	-		-	-	20900		4.46	0.805	16300		4.65	0.84	19600		4.5	0.813
Lead, total	450	--		-		-	-	-		-	-	-		-	-	79.6		4.46	0.239	91.8		4.65	0.249	64.1		4.5	0.241
Magnesium, total	--	--		-		-	-	-		-	-	-		-	-	6210		8.92	1.37	4260		9.3	1.43	5950		9	1.39
Manganese, total	2,000	--		-		-	-	-		-	-	-		-	-	352		0.892	0.142	269		0.93	0.148	349		0.9	0.143
Mercury, total	10	--		-		-	-	-		-	-	-		-	-	0.107		0.073	0.048	0.15		0.078	0.051	0.105		0.076	0.049
Nickel, total	650	--		-		-	-	-		-	-	-		-	-	31.9		2.23	0.216	14.6		2.33	0.225	19.3		2.25	0.218
Potassium, total	--	--		-		-	-	-		-	-	-		-	-	5960		223	12.8	4220		233	13.4	5980		225	13
Selenium, total	26	--		-		-	-	-		-	-	-		-	-	0.624	J	1.78	0.23	0.363	J	1.86	0.24	0.378	J	1.8	0.232

Table 9
Summary of Test Pit Sampling Results - Onsite Soil Stockpile
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values)	Pennsylvania Nonresidential Soil Statewide Health Standard Vapor Intrusion Screening Values Criteria	Sample ID: / Laboratory ID: / Collection Date: / Sample Depth: / Sample Matrix:	TP-1 L2158501-01 10/25/2021 SOIL				TP-5 L2158501-02 10/25/2021 SOIL				TP-11 L2158501-03 10/25/2021 SOIL				COMP-13 L2158501-04 10/25/2021 SOIL				COMP-14 L2158501-05 10/25/2021 SOIL				COMP-15 L2158501-06 10/25/2021 SOIL			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Silver, total	84	--		-		-	-	-		-	-	-		-	-	0.252	U	0.892	0.252	0.263	U	0.93	0.263	0.255	U	0.9	0.255
Sodium, total	--	--		-		-	-	-		-	-	-		-	-	130	J	178	2.81	72.8	J	186	2.93	103	J	180	2.84
Thallium, total	14	--		-		-	-	-		-	-	-		-	-	0.281	U	1.78	0.281	0.293	U	1.86	0.293	0.284	U	1.8	0.284
Vanadium, total	16,000	--		-		-	-	-		-	-	-		-	-	36		0.892	0.181	24.4		0.93	0.189	29.2		0.9	0.183
Zinc, total	12,000	--		-		-	-	-		-	-	-		-	-	112		4.46	0.261	55.9		4.65	0.273	69.7		4.5	0.264
General Chemistry																											
Solids, total	--	--		81.5		0.1	-	87.7		0.1	-	83.2		0.1	-	85.3		0.1	-	85.7		0.1	-	86.6		0.1	-

Notes:
1. Samples were collected by Arcadis U.S., Inc. on behalf of Alliance 51st Street LLC.
2. Concentrations are reported in milligrams per kilogram.
3.There were no exceedances of the Representative Pennsylvania Soil MSCs for detected values.
4. ***Bold and italicized*** values indicate a non-detected result with the MDL greater than the MSC.

Acronyms and Abbreviations:
' = foot/feet
- = data not available
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
Conc = concentration
GW = groundwater
ID = identification
MDL = method detection limit
MSC = Medium Specific Concentration
Q = qualifier
RL = reporting limit
SIM = selected ion monitoring

Laboratory Qualifiers:
J = The compound was detected; however, the concentration is below the laboratory method detection limit, so this concentration is estimated.
U = Compound was undetected at the listed laboratory method detection limit.

Table 10
Summary of Temporary Well Groundwater Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Used Aquifer Groundwater MSCs	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	TW-1 L2158070-01 10/22/2021 WATER				TW-1 L2158069-01 10/22/2021 WATER				TW-2 L2158070-02 10/22/2021 WATER				TW-2 L2158069-02 10/22/2021 WATER				TW-3 L2158070-03 10/22/2021 WATER				TW-3 L2158069-03 10/22/2021 WATER				TW-5 L2158070-04 10/22/2021 WATER				TW-5 L2158069-04 10/22/2021 WATER			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																		
1,1,1-Trichloroethane	200		0.16	U	0.5	0.16	-	-	-	-	0.16	U	0.5	0.16	-	-	-	-	0.16	U	0.5	0.16	-	-	-	-	0.16	U	0.5	0.16	-	-	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000		0.15	U	2.5	0.15	-	-	-	-	0.15	U	2.5	0.15	-	-	-	-	0.15	U	2.5	0.15	-	-	-	-	0.15	U	2.5	0.15	-	-	-	-
1,1,2-Trichloroethane	5		0.14	U	0.75	0.14	-	-	-	-	0.14	U	0.75	0.14	-	-	-	-	0.14	U	0.75	0.14	-	-	-	-	0.14	U	0.75	0.14	-	-	-	-
1,1-Dichloroethane	160		0.21	U	0.75	0.21	-	-	-	-	0.21	U	0.75	0.21	-	-	-	-	0.21	U	0.75	0.21	-	-	-	-	0.21	U	0.75	0.21	-	-	-	-
1,1-Dichloroethene	7		0.17	U	0.5	0.17	-	-	-	-	0.17	U	0.5	0.17	-	-	-	-	0.17	U	0.5	0.17	-	-	-	-	0.17	U	0.5	0.17	-	-	-	-
1,2,3-Trichlorobenzene	--		0.23	U	2.5	0.23	-	-	-	-	0.23	U	2.5	0.23	-	-	-	-	0.23	U	2.5	0.23	-	-	-	-	0.23	U	2.5	0.23	-	-	-	-
1,2,4-Trichlorobenzene	70		0.22	U	2.5	0.22	-	-	-	-	0.33	J	2.5	0.22	-	-	-	-	0.22	U	2.5	0.22	-	-	-	-	0.22	U	2.5	0.22	-	-	-	-
1,2,4-Trimethylbenzene	530		390	E	2.5	0.19	320		50	3.8	0.96	J	2.5	0.19	-	-	-	-	1.4	J	2.5	0.19	1.1	J	2.5	0.19	1.3	J	2.5	0.19	1.5	J	2.5	0.19
1,2-Dibromo-3-chloropropane	0.2		***0.35***	U	2.5	0.35	-	-	-	-	***0.35***	U	2.5	0.35	-	-	-	-	***0.35***	U	2.5	0.35	-	-	-	-	***0.35***	U	2.5	0.35	-	-	-	-
1,2-Dibromoethane	0.05		***0.19***	U	2	0.19	-	-	-	-	***0.19***	U	2	0.19	-	-	-	-	***0.19***	U	2	0.19	-	-	-	-	***0.19***	U	2	0.19	-	-	-	-
1,2-Dichlorobenzene	600		0.18	U	2.5	0.18	-	-	-	-	0.58	J	2.5	0.18	-	-	-	-	0.85	J	2.5	0.18	-	-	-	-	0.18	U	2.5	0.18	-	-	-	-
1,2-Dichloroethane	5		1.5		0.5	0.13	-	-	-	-	0.13	U	0.5	0.13	-	-	-	-	0.13	U	0.5	0.13	-	-	-	-	0.21	J	0.5	0.13	-	-	-	-
1,2-Dichloroethene, total	--		0.16	U	0.5	0.16	-	-	-	-	0.16	U	0.5	0.16	-	-	-	-	0.16	U	0.5	0.16	-	-	-	-	0.16	U	0.5	0.16	-	-	-	-
1,2-Dichloropropane	5		0.14	U	1	0.14	-	-	-	-	0.14	U	1	0.14	-	-	-	-	0.14	U	1	0.14	-	-	-	-	0.14	U	1	0.14	-	-	-	-
1,3-Dichlorobenzene	600		0.19	U	2.5	0.19	-	-	-	-	0.19	U	2.5	0.19	-	-	-	-	0.19	U	2.5	0.19	-	-	-	-	0.19	U	2.5	0.19	-	-	-	-
1,3-Dichloropropene, total	27		0.14	U	0.5	0.14	-	-	-	-	0.14	U	0.5	0.14	-	-	-	-	0.14	U	0.5	0.14	-	-	-	-	0.14	U	0.5	0.14	-	-	-	-
1,4-Dichlorobenzene	75		0.19	U	2.5	0.19	-	-	-	-	0.19	U	2.5	0.19	-	-	-	-	0.2	J	2.5	0.19	-	-	-	-	0.19	U	2.5	0.19	-	-	-	-
2-Butanone	4,000		1.9	U	5	1.9	-	-	-	-	1.9	U	5	1.9	-	-	-	-	1.9	U	5	1.9	-	-	-	-	1.9	U	5	1.9	-	-	-	-
2-Hexanone	260		0.52	U	5	0.52	-	-	-	-	0.52	U	5	0.52	-	-	-	-	0.52	U	5	0.52	-	-	-	-	0.52	U	5	0.52	-	-	-	-
4-Methyl-2-pentanone	7,800		0.42	U	5	0.42	-	-	-	-	0.42	U	5	0.42	-	-	-	-	0.42	U	5	0.42	-	-	-	-	0.42	U	5	0.42	-	-	-	-
Acetone	88,000		1.5	U	5	1.5	-	-	-	-	7.1		5	1.5	-	-	-	-	1.5	U	5	1.5	-	-	-	-	13		5	1.5	-	-	-	-
Benzene	5		66		0.5	0.16	65		10	3.2	0.3	J	0.5	0.16	-	-	-	-	0.24	J	0.5	0.16	-	-	-	-	0.32	J	0.5	0.16	0.36	J	0.5	0.16
Bromochloromethane	90		0.15	U	2.5	0.15	-	-	-	-	0.15	U	2.5	0.15	-	-	-	-	0.15	U	2.5	0.15	-	-	-	-	0.15	U	2.5	0.15	-	-	-	-
Bromodichloromethane	80		0.19	U	0.5	0.19	-	-	-	-	0.19	U	0.5	0.19	-	-	-	-	0.19	U	0.5	0.19	-	-	-	-	0.19	U	0.5	0.19	-	-	-	-
Bromoform	80		0.25	U	2	0.25	-	-	-	-	0.25	U	2	0.25	-	-	-	-	0.25	U	2	0.25	-	-	-	-	0.25	U	2	0.25	-	-	-	-
Bromomethane	10		0.26	U	1	0.26	-	-	-	-	0.26	U	1	0.26	-	-	-	-	0.26	U	1	0.26	-	-	-	-	0.26	U	1	0.26	-	-	-	-
Carbon disulfide	6,200		0.3	U	5	0.3	-	-	-	-	0.3	U	5	0.3	-	-	-	-	0.3	U	5	0.3	-	-	-	-	0.3	U	5	0.3	-	-	-	-
Carbon tetrachloride	5		0.13	U	0.5	0.13	-	-	-	-	0.13	U	0.5	0.13	-	-	-	-	0.13	U	0.5	0.13	-	-	-	-	0.13	U	0.5	0.13	-	-	-	-
Chlorobenzene	100		0.88		0.5	0.18	-	-	-	-	0.18	U	0.5	0.18	-	-	-	-	1.6		0.5	0.18	-	-	-	-	0.18	U	0.5	0.18	-	-	-	-
Chloroethane	88,000		0.13	U	1	0.13	-	-	-	-	0.13	U	1	0.13	-	-	-	-	0.13	U	1	0.13	-	-	-	-	0.13	U	1	0.13	-	-	-	-
Chloroform	80		0.22	U	0.75	0.22	-	-	-	-	0.22	U	0.75	0.22	-	-	-	-	0.22	U	0.75	0.22	-	-	-	-	0.22	U	0.75	0.22	-	-	-	-
Chloromethane	30		0.2	U	2.5	0.2	-	-	-	-	0.2	U	2.5	0.2	-	-	-	-	0.2	U	2.5	0.2	-	-	-	-	0.2	U	2.5	0.2	-	-	-	-
cis-1,2-Dichloroethene	70		0.19	U	0.5	0.19	-	-	-	-	0.19	U	0.5	0.19	-	-	-	-	0.19	U	0.5	0.19	-	-	-	-	0.19	U	0.5	0.19	-	-	-	-
cis-1,3-Dichloropropene	34		0.14	U	0.5	0.14	-	-	-	-	0.14	U	0.5	0.14	-	-	-	-	0.14	U	0.5	0.14	-	-	-	-	0.14	U	0.5	0.14	-	-	-	-
Cyclohexane	53,000		78		10	0.27	-	-	-	-	0.35	J	10	0.27	-	-	-	-	7.1	J	10	0.27	-	-	-	-	0.27	U	10	0.27	-	-	-	-
Dibromochloromethane	80		0.15	U	0.5	0.15	-	-	-	-	0.15	U	0.5	0.15	-	-	-	-	0.15	U	0.5	0.15	-	-	-	-	0.15	U	0.5	0.15	-	-	-	-
Dichlorodifluoromethane	1,000		0.24	U	5	0.24	-	-	-	-	0.24	U	5	0.24	-	-	-	-	0.24	U	5	0.24	-	-	-	-	0.24	U	5	0.24	-	-	-	-
Ethylbenzene	700		79		0.5	0.17	-	-	-	-	0.21	J	0.5	0.17	-	-	-	-	22		0.5	0.17	-	-	-	-	0.2	J	0.5	0.17	-	-	-	-
Isopropylbenzene	3,500		35		0.5	0.19	-	-	-	-	5.8		0.5	0.19	-	-	-	-	4.3		0.5	0.19	-	-	-	-	0.19	U	0.5	0.19	-	-	-	-
Methyl acetate	97,000		0.23	U	2	0.23	-	-	-	-	0.23	U	2	0.23	-	-	-	-	0.23	U	2	0.23	-	-	-	-	0.23	U	2	0.23	-	-	-	-
Methyl cyclohexane	--		110		10	0.4	-	-	-	-	4	J	10	0.4	-	-	-	-	8.6	J	10	0.4	-	-	-	-	0.41	J	10	0.4	-	-	-	-
Methyl tert-butyl ether	20		0.72	J	1	0.17	-	-	-	-	0.17	U	1	0.17	-	-	-	-	0.45	J	1	0.17	-	-	-	-	0.17	U	1	0.17	-	-	-	-
Methylene chloride	5		0.68	U	2.5	0.68	-	-	-	-	0.68	U	2.5	0.68	-	-	-	-	0.68	U	2.5	0.68	-	-	-	-	0.68	U	2.5	0.68	-	-	-	-
o-Xylene	10,000		60		1	0.39	-	-	-	-	0.41	J	1	0.39	-	-	-	-	0.57	J	1	0.39	-	-	-	-	0.49	J	1	0.39	-	-	-	-
p/m-Xylene	10,000		180		1	0.33	-	-	-	-	0.71	J	1	0.33	-	-	-	-	1.5		1	0.33	-	-	-	-	0.69	J	1	0.33	-	-	-	-
Styrene	100		0.36	U	1	0.36	-	-	-	-	0.36	U	1	0.36	-	-	-	-	0.36	U	1	0.36	-	-	-	-	0.36	U	1	0.36	-	-	-	-

Table 10
Summary of Temporary Well Groundwater Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Used Aquifer Groundwater MSCs	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	TW-1 L2158070-01 10/22/2021 WATER				TW-1 L2158069-01 10/22/2021 WATER				TW-2 L2158070-02 10/22/2021 WATER				TW-2 L2158069-02 10/22/2021 WATER				TW-3 L2158070-03 10/22/2021 WATER				TW-3 L2158069-03 10/22/2021 WATER				TW-5 L2158070-04 10/22/2021 WATER				TW-5 L2158069-04 10/22/2021 WATER			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Tetrachloroethene	5		0.18	U	0.5	0.18	-	-	-	-	0.18	U	0.5	0.18	-	-	-	-	0.18	U	0.5	0.18	-	-	-	-	0.18	U	0.5	0.18	-	-	-	-
Toluene	1,000		95		0.75	0.2	-	-	-	-	0.86		0.75	0.2	-	-	-	-	0.42	J	0.75	0.2	-	-	-	-	1.2		0.75	0.2	-	-	-	-
trans-1,2-Dichloroethene	100		0.16	U	0.75	0.16	-	-	-	-	0.16	U	0.75	0.16	-	-	-	-	0.16	U	0.75	0.16	-	-	-	-	0.16	U	0.75	0.16	-	-	-	-
trans-1,3-Dichloropropene	34		0.16	U	0.5	0.16	-	-	-	-	0.16	U	0.5	0.16	-	-	-	-	0.16	U	0.5	0.16	-	-	-	-	0.16	U	0.5	0.16	-	-	-	-
Trichloroethene	5		0.18	U	0.5	0.18	-	-	-	-	0.18	U	0.5	0.18	-	-	-	-	0.18	U	0.5	0.18	-	-	-	-	0.18	U	0.5	0.18	-	-	-	-
Trichlorofluoromethane	2,000		0.16	U	2.5	0.16	-	-	-	-	0.16	U	2.5	0.16	-	-	-	-	0.16	U	2.5	0.16	-	-	-	-	0.16	U	2.5	0.16	-	-	-	-
Vinyl chloride	2		0.07	U	1	0.07	-	-	-	-	0.07	U	1	0.07	-	-	-	-	0.07	U	1	0.07	-	-	-	-	0.07	U	1	0.07	-	-	-	-
Xylenes, total	10,000		240		1	0.33	-	-	-	-	1.1	J	1	0.33	-	-	-	-	2.1	J	1	0.33	-	-	-	-	1.2	J	1	0.33	-	-	-	-
Volatile Organic Compounds - SIM																																		
1,1,2,2-Tetrachloroethane	4.3		0.006	U	0.05	0.006	-	-	-	-	0.006	U	0.05	0.006	-	-	-	-	0.006	U	0.05	0.006	-	-	-	-	0.006	U	0.05	0.006	-	-	-	-
1,4-Dioxane	27		1.1	U	3	1.1	-	-	-	-	1.1	U	3	1.1	-	-	-	-	1.1	U	3	1.1	-	-	-	-	1.1	U	3	1.1	-	-	-	-
Dissolved Inorganics																																		
Lead, dissolved	5		-		-	-	-	-	-	-	9.312		1	0.343	0.982	J	1	0.343	0.791	J	1	0.343	-	-	-	-	0.355	J	1	0.343	-	-	-	-
Total Metals																																		
Lead	5		2.126	J	5	1.715	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations are reported in micrograms per liter.
2. Shaded results indicate detected concentrations are exceedances of the groundwater MSC.
3. Bold and italicized values indicate a non-detected result with the MDL greater than the MSC.

Acronyms and Abbreviations:
- = data not available
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
* = Site-Specific Non-Residential Vapor Intrusion screening value
Conc = concentration
ID = identification
MDL = method detection limit
MSC = Medium Specific Concentration
Q = qualifier
RL = reporting limit
SIM = selected ion monitoring

Laboratory Qualifiers:
E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
J = The compound was detected; however, the concentration is below the laboratory method detection limit. so this concentration is estimated.
U = Compound was undetected at the listed laboratory method detection limit.

Table 11
Monitoring Well Construction Details and Groundwater Elevation Data
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Well ID	Date Installed	Top of Casing Elevation (ft msl)	Well Diameter (inches)	Depth to Top of Screen (ft bgs)	Total Depth (ft bgs)	Screen Length (ft)	10/25/2021		4/1/2022		7/11/2022		10/27/2022		1/25/2023		4/28/2023		7/17/2023	
							Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
MW-1	Not available	14.19	2	4[a]	20	16	10.40	3.79	10.14	4.05	10.37	3.82	10.41	3.78	9.68	4.51	10.49	3.70	9.70	4.49
MW-2	Not available	18.24	2	4[a]	25	21	7.23	9.21	6.88	9.56	7.08	9.36	7.28	9.16	6.75	9.69	7.51	8.93	6.78	9.66
MW-3	Not available	19.33	2	2[a]	26	24	6.74	12.59	4.46	14.87	5.93	13.40	5.92	13.41	3.85	15.48	6.32	13.01	4.30	15.03
MW-4	Not available	28.76	2	5[a]	20	15	11.62	17.14	12.92	15.84	10.45	18.31	10.21	18.55	6.33	22.43	10.60	18.16	6.07	22.69
MW-5	Not available	29.02	2	3.5[a]	20	16.5	11.84	17.18	12.09	16.93	11.94	17.08	12.02	17.00	11.60	17.42	12.00	17.02	11.38	17.64
MW-7	3/16/2022	19.17	2	3	15	12	NI	NI	4.96	14.21	5.15	14.02	5.11	14.06	4.25	14.92	5.50	13.67	3.39	15.78
MW-8	3/16/2022	23.09	2	3	22	19	NI	NI	4.14	18.95	4.29	18.80	4.55	18.54	3.90	19.19	5.15	17.94	3.25	19.84
MW-9	3/16/2022	31.36	2	3	20	17	NI	NI	9.93	21.43	10.73	20.63	9.90	21.46	7.80	23.56	9.99	21.37	8.38	22.98

Table 11
Monitoring Well Construction Details and Groundwater Elevation Data
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Well ID	Date Installed	Top of Casing Elevation (ft msl)	Well Diameter (inches)	Depth to Top of Screen (ft bgs)	Total Depth (ft bgs)	Screen Length (ft)	10/3/2023		1/23/2024		5/30/2024		8/23/2024		10/4/2024		11/21/2024	
							Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation, feet msl	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
MW-1	Not available	14.19	2	4[a]	20	16	9.90	4.29	9.55	4.64	11.19	3.00	10.30	3.89	10.65	3.54	7.56	6.63
MW-2	Not available	18.24	2	4[a]	25	21	6.74	9.70	6.55	9.89	8.21	8.23	Damaged		10.29	7.95	10.65	7.59
MW-3	Not available	19.33	2	2[a]	26	24	4.56	14.77	3.94	15.39	6.55	12.78	4.71	14.62	8.20	11.13	9.22	10.11
MW-4	Not available	28.76	2	5[a]	20	15	10.40	18.36	8.63	20.13	11.82	16.94	10.28	18.48	14.22	14.54	14.65	14.11
MW-5	Not available	29.02	2	3.5[a]	20	16.5	11.73	17.29	10.65	18.37	12.36	16.66	12.27	16.75	12.69	16.33	13.34	15.68
MW-7	3/16/2022	19.17	2	3	15	12	4.95	14.22	4.05	15.12	5.30	13.87	5.58	13.59	7.46	11.71	7.82	11.35
MW-8	3/16/2022	23.09	2	3	22	19	11.95	11.14	2.65	20.44	4.80	18.29	4.21	18.88	7.61	15.48	7.78	15.31
MW-9	3/16/2022	31.36	2	3	20	17	8.52	22.84	7.24	24.12	9.82	21.54	10.25	21.11	14.55	16.81	14.65	16.71

Notes:
[a] Depth to screen was estimated using a downhole camera.
1. For monitoring wells MW-1 through MW-5, total depth and screen lengths were estimated using available information from the field; no well construction logs were available.
2. Monitoring well MW-2 was damaged prior to August 2024. Repaired and resurveyed in September 2024. Original TOC elevation was 16.44 ft msl.

Acronyms and Abbreviations:
ft bgs = feet below ground surface
ft btoc = feet below top of casing
ft msl = feet above mean sea level
ID = identification
NI = not installed
TOC - top of casing

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-1 L2158499-02 10/25/2021 WATER				MW-1 L2216990-01 4/1/2022 WATER				MW-1 L2236752-01 7/11/2022 WATER				MW-1 L2260298-01 10/27/2022 WATER				MW-1 L2304271-01 1/25/2023 WATER				MW-1 L2323142-01 4/28/2023 WATER				MW-1 L2340838-06 7/17/2023 WATER				MW-1 L2358445-05 10/3/2023 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																			
1,1,1-Trichloroethane	200	160,000		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.32	U	1	0.32	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.3	U	5	0.3	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
1,1,2-Trichloroethane	5	140		0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.29	U	1.5	0.29	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14
1,1-Dichloroethane	160	1,600		0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.42	U	1.5	0.42	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21
1,1-Dichloroethene	7	3,800		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.34	U	1	0.34	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
1,2,3-Trichlorobenzene	--	--		0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.47	U	5	0.47	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23
1,2,4-Trichlorobenzene	70	1,000		0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.44	U	5	0.44	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,2,4-Trimethylbenzene	530	6,400		0.3	J	2.5	0.19	0.19	U	2.5	0.19	0.52	J	2.5	0.19	0.38	U	5	0.38	0.35	J	2.5	0.19	0.36	J	2.5	0.19	0.45	J	2.5	0.19	0.4	J	2.5	0.19
1,2-Dibromo-3-chloropropane	0.2	22		0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.71	U	5	0.71	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35
1,2-Dibromoethane	0.05	44		0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.39	U	4	0.39	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19
1,2-Dichlorobenzene	600	69,000		0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.37	U	5	0.37	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18
1,2-Dichloroethane	5	510		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.26	U	1	0.26	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
1,2-Dichloroethene, total	--	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.33	U	1	0.33	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,2-Dichloropropane	5	5		0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.27	U	2	0.27	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14
1,3,5-Trimethylbenzene	530	4,500		-	-	-	-	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.43	U	5	0.43	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.24	J	2.5	0.22	0.22	U	2.5	0.22
1,3-Dichlorobenzene	600	--		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.37	U	5	0.37	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,3-Dichloropropene, total	27	1,100		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.29	U	1	0.29	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
1,4-Dichlorobenzene	75	680		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.37	U	5	0.37	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
2-Butanone	4,000	49,000,000		1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	3.9	U	10	3.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9
2-Hexanone	260	200,000		0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	1	U	10	1	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52
4-Methyl-2-pentanone	7,800	13,000,000		0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.83	U	10	0.83	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42
Acetone	88,000	470,000,000		1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	2.9	U	10	2.9	1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5
Benzene	5	350		0.91		0.5	0.16	0.98		0.5	0.16	0.68		0.5	0.16	1		1	0.32	1.1		0.5	0.16	0.92		0.5	0.16	0.75		0.5	0.16	1.3		0.5	0.16
Bromochloromethane	90	15,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.3	U	5	0.3	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
Bromodichloromethane	80	200		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.38	U	1	0.38	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Bromoform	80	30,000		0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.5	U	4	0.5	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25
Bromomethane	10	330		0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.51	U	2	0.51	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26
Carbon disulfide	6,200	25,000		0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.6	U	10	0.6	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3
Carbon tetrachloride	5	91		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.27	U	1	0.27	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
Chlorobenzene	100	9,600		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.36	U	1	0.36	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Chloroethane	88,000	440,000		0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.27	U	2	0.27	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13
Chloroform	80	180		0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.44	U	1.5	0.44	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22
Chloromethane	30	810		0.27	J	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.4	U	5	0.4	0.41	J	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2
cis-1,2-Dichloroethene	70	--		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.37	U	1	0.37	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
cis-1,3-Dichloropropene	34	--		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.29	U	1	0.29	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
Cyclohexane	53,000	53,000		6.3	J	10	0.27	9.5	J	10	0.27	8.2	J	10	0.27	9.9	J	20	0.54	12		10	0.27	9.4	J	10	0.27	9.7	J	10	0.27	8	J	10	0.27
Dibromochloromethane	80	670		0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.3	U	1	0.3	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15
Dichlorodifluoromethane	1,000	1,000		0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.49	U	10	0.49	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24
Ethylbenzene	700	860		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.35	J	1	0.33	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
Isopropylbenzene	3,500	24,000		1.1		0.5	0.19	2.2		0.5	0.19	1.8		0.5	0.19	1.9		1	0.37	2		0.5	0.19	2.3		0.5	0.19	1.9		0.5	0.19	1.1		0.5	0.19
Methyl acetate	97000	--		0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.47	U	4	0.47	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23
Methyl cyclohexane	--	--		0.4	U	10	0.4	0.4	U	10	0.4	8.4	J	10	0.4	8.5	J	20	0.79	0.4	U	10	0.4	9.1	J	10	0.4	9.4	J	10	0.4	7.9	J	10	0.4
Methyl tert-butyl ether	20	96,000		0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.33	U	2	0.33	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17
Methylene chloride	5	95,000		0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	1.4	U	5	1.4	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68
Naphthalene	100	1300		-	-	-	-	0.22	U	1	0.22	1.1		1	0.22	0.43	U	2	0.43	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22
o-Xylene	10000	--		0.42	J	1	0.39	0.65	J	1	0.39	0.48	J	1	0.39	0.96	J	2	0.78	0.86	J	1	0.39	0.64	J	1	0.39	0.7	J	1	0.39	0.67	J	1	0.39
p/m-Xylene	10000	--		1.8		1	0.33	1.9		1	0.33	1.7		1	0.33	2.8		2	0.66	2.8		1	0.33	2.3		1	0.33	2.2		1	0.33	2.6		1	0.33
Styrene	100	220,000		0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.72	U	2	0.72	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36
Tetrachloroethene	5	1,300		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.36	U	1	0.36	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Toluene	1,000	430,000		0.71	J	0.75	0.2	0.78		0.75	0.2	0.6	J	0.75	0.2	1.1	J	1.5	0.41	0.89		0.75	0.2	0.75		0.75	0.2	0.82		0.75	0.2	1.1		0.75	0.2
trans-1,2-Dichloroethene	100	7,600		0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.33	U	1.5	0.33	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16
trans-1,3-Dichloropropene	34	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.33	U	1	0.33	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
Trichloroethene	5	110		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.35	U	1	0.35	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Trichlorofluoromethane	2,000	3,600		0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.32	U	5	0.32	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16
Vinyl chloride	2	53		0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.14	U	2	0.14	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07
Xylenes, total	10,000	12,000		2.2	J	1	0.33	2.6	J	1	0.33	2.2	J	1	0.33	3.8	J	2	0.66	3.7	J	1	0.33	2.9	J	1	0.33	2.9	J	1	0.33	3.3	J	1	0.33
Volatile Organics Compounds - SIM																																			
1,1,2,2-Tetrachloroethane	4.3	820		0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.011	U	0.1	0.011	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006
1,4-Dioxane	27	700,000		1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	2.1	U	6	2.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1
Inorganics																																			
Chromium, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead, dissolved	5	--		-	-	-	-	0.343	U	1	0.343	0.343	U	1	0.343	1.267		1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343
Chromium, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-1 L2403900-05 1/23/2024 WATER				MW-1 L2448392-02 8/23/2024 WATER				MW-1 L2468822-04 11/21/2024 WATER				MW-2 L2158499-01 10/25/2021 WATER				MW-2 L2216990-02 4/1/2022 WATER				MW-2 L2236752-02 7/11/2022 WATER				MW-2 L2260298-02 10/27/2022 WATER				MW-2 L2304271-02 1/25/2023 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																					
1,1,1-Trichloroethane	200	160,000		0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		0.15	U	2.5	0.15	-	-	-	-	-	-	-	-	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
1,1,2-Trichloroethane	5	140		0.14	U	0.75	0.14	-	-	-	-	-	-	-	-	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14
1,1-Dichloroethane	160	1,600		0.21	U	0.75	0.21	-	-	-	-	-	-	-	-	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21
1,1-Dichloroethene	7	3,800		0.17	U	0.5	0.17	-	-	-	-	-	-	-	-	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
1,2,3-Trichlorobenzene	--	--		0.23	U	2.5	0.23	-	-	-	-	-	-	-	-	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23
1,2,4-Trichlorobenzene	70	1,000		0.22	U	2.5	0.22	-	-	-	-	-	-	-	-	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,2,4-Trimethylbenzene	530	6,400		0.4	J	2.5	0.19	-	-	-	-	-	-	-	-	3		2.5	0.19	3.3		2.5	0.19	3.1		2.5	0.19	4		2.5	0.19	3.9		2.5	0.19				
1,2-Dibromo-3-chloropropane	0.2	22		0.35	U	2.5	0.35	-	-	-	-	-	-	-	-	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35
1,2-Dibromoethane	0.05	44		0.19	U	2	0.19	-	-	-	-	-	-	-	-	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19
1,2-Dichlorobenzene	600	69,000		0.18	U	2.5	0.18	-	-	-	-	-	-	-	-	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18
1,2-Dichloroethane	5	510		0.13	U	0.5	0.13	-	-	-	-	-	-	-	-	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
1,2-Dichloroethene, total	--	--		0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,2-Dichloropropane	5	5		0.14	U	1	0.14	-	-	-	-	-	-	-	-	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14
1,3,5-Trimethylbenzene	530	4,500		0.22	U	2.5	0.22	-	-	-	-	-	-	-	-	-	-	-	-	4		2.5	0.22	3.7		2.5	0.22	5.2		2.5	0.22	5.2		2.5	0.22				
1,3-Dichlorobenzene	600	--		0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,3-Dichloropropene, total	27	1,100		0.14	U	0.5	0.14	-	-	-	-	-	-	-	-	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
1,4-Dichlorobenzene	75	680		0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
2-Butanone	4,000	49,000,000		1.9	U	5	1.9	-	-	-	-	-	-	-	-	1.9	U	5	1.9	1.9	U	5	1.9	2.3	J	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9
2-Hexanone	260	200,000		0.52	U	5	0.52	-	-	-	-	-	-	-	-	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52
4-Methyl-2-pentanone	7,800	13,000,000		0.42	U	5	0.42	-	-	-	-	-	-	-	-	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42
Acetone	88,000	470,000,000		1.5	U	5	1.5	-	-	-	-	-	-	-	-	3.8	J	5	1.5	4.6	J	5	1.5	3.1	J	5	1.5	1.5	U	5	1.5	4.3	J	5	1.5				
Benzene	5	350		0.98		0.5	0.16	-	-	-	-	-	-	-	-	3.1		0.5	0.16	3.3		0.5	0.16	3.2		0.5	0.16	3.8		0.5	0.16	4		0.5	0.16				
Bromochloromethane	90	15,000		0.15	U	2.5	0.15	-	-	-	-	-	-	-	-	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
Bromodichloromethane	80	200		0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Bromoform	80	30,000		0.25	U	2	0.25	-	-	-	-	-	-	-	-	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25
Bromomethane	10	330		0.26	U	1	0.26	-	-	-	-	-	-	-	-	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26
Carbon disulfide	6,200	25,000		0.3	U	5	0.3	-	-	-	-	-	-	-	-	0.3	U	5	0.3	0.36	J	5	0.3	0.45	J	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3
Carbon tetrachloride	5	91		0.13	U	0.5	0.13	-	-	-	-	-	-	-	-	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
Chlorobenzene	100	9,600		0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Chloroethane	88,000	440,000		0.13	U	1	0.13	-	-	-	-	-	-	-	-	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13
Chloroform	80	180		0.22	U	0.75	0.22	-	-	-	-	-	-	-	-	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22
Chloromethane	30	810		0.2	U	2.5	0.2	-	-	-	-	-	-	-	-	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2
cis-1,2-Dichloroethene	70	--		0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
cis-1,3-Dichloropropene	34	--		0.14	U	0.5	0.14	-	-	-	-	-	-	-	-	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
Cyclohexane	53,000	53,000		10		10	0.27	-	-	-	-	-	-	-	-	3.2	J	10	0.27	3.6	J	10	0.27	2.8	J	10	0.27	4.1	J	10	0.27	3.8	J	10	0.27				
Dibromochloromethane	80	670		0.15	U	0.5	0.15	-	-	-	-	-	-	-	-	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15
Dichlorodifluoromethane	1,000	1,000		0.24	U	5	0.24	-	-	-	-	-	-	-	-	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24
Ethylbenzene	700	860		0.17	U	0.5	0.17	-	-	-	-	-	-	-	-	0.45	J	0.5	0.17	0.37	J	0.5	0.17	0.41	J	0.5	0.17	0.5		0.5	0.17	0.57		0.5	0.17				
Isopropylbenzene	3,500	24,000		1.7		0.5	0.19	-	-	-	-	-	-	-	-	0.38	J	0.5	0.19	0.38	J	0.5	0.19	0.38	J	0.5	0.19	0.42	J	0.5	0.19	0.48	J	0.5	0.19				
Methyl acetate	97000	--		0.23	U	2	0.23	-	-	-	-	-	-	-	-	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23				
Methyl cyclohexane	--	--		10		10	0.4	-	-	-	-	-	-	-	-	2.5	J	10	0.4	2.7	J	10	0.4	3.1	J	10	0.4	4.1	J	10	0.4	4	J	10	0.4				
Methyl tert-butyl ether	20	96,000		0.17	U	1	0.17	-	-	-	-	-	-	-	-	2.1		1	0.17	2.4		1	0.17	2.1		1	0.17	2.6		1	0.17	2.9		1	0.17				
Methylene chloride	5	95,000		0.68	U	2.5	0.68	-	-	-	-	-	-	-	-	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68				
Naphthalene	100	1300		0.45	J	1	0.22	-	-	-	-	-	-	-	-	-	-	-	-	6.6		1	0.22	6.8		1	0.22	0.22	U	1	0.22	6		1	0.22				
o-Xylene	10000	--		0.68	J	1	0.39	-	-	-	-	-	-	-	-	4.4		1	0.39	4.1		1	0.39	4.5		1	0.39	5.6		1	0.39	5.7		1	0.39				
p/m-Xylene	10000	--		2.3		1	0.33	-	-	-	-	-	-	-	-	2		1	0.33	1.9		1	0.33	2.1		1	0.33	2.5		1	0.33	2.8		1	0.33				
Styrene	100	220,000		0.36	U	1	0.36	-	-	-	-	-	-	-	-	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36				
Tetrachloroethene	5	1,300		0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18				
Toluene	1,000	430,000		0.79		0.75	0.2	-	-	-	-	-	-	-	-	1.4		0.75	0.2	1.6		0.75	0.2	1.6		0.75	0.2	1.9		0.75	0.2	1.9		0.75	0.2				
trans-1,2-Dichloroethene	100	7,600		0.16	U	0.75	0.16	-	-	-	-	-	-	-	-	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16				
trans-1,3-Dichloropropene	34	--		0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16				
Trichloroethene	5	110		0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18				
Trichlorofluoromethane	2,000	3,600		0.16	U	2.5	0.16	-	-	-	-	-	-	-	-	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16				
Vinyl chloride	2	53		0.07	U	1	0.07	-	-	-	-	-	-	-	-	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07				
Xylenes, total	10,000	12,000		3	J	1	0.33	-	-	-	-	-	-	-	-	6.4		1	0.33	6		1	0.33	6.6		1	0.33	8.1		1	0.33	8.5		1	0.33				
Volatile Organics Compounds - SIM																																					
1,1,2,2-Tetrachloroethane	4.3	820		0.006	U	0.05	0.006	-	-	-	-	-	-	-	-	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006				
1,4-Dioxane	27	700,000		1.1	U	3	1.1	-	-	-	-	-	-	-	-	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1				
Inorganics																																					
Chromium, Dissolved	100	--		3.518		2	0.178	2.264		1	0.178	2.39		1	0.178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead, dissolved	5	--		0.343	U	1	0.343	-	-	-	-	-	-	-	-	-	-	-	-	0.343	U	1	0.343	0.343	U	1	0.343	1.907		1	0.343	0.343	U	1	0.343				
Chromium, Total	100	--		-	-	-	-	8.118		1	0.178	5.569		1	0.178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Dissolved	100	--		-	-	-	-	3	U	10	3	3	U	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Total	100	--		-	-	-	-	3	U	10	3	3	U	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-2 L2323142-02 4/28/2023 WATER				MW-2 L2340838-04 7/17/2023 WATER				MW-2 L2358445-01 10/3/2023 WATER				MW-2 L2403900-06 1/23/2024 WATER				MW-2 L2457815-01 10/4/2024 WATER				MW-2 L2468822-07 11/21/2024 WATER				MW-3 L2158499-03 10/25/2021 WATER				MW-3 L2216990-03 4/1/2022 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																					
1,1,1-Trichloroethane	200	160,000		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	-	-	-	-	-	-	-	-	0.15	U	2.5	0.15	0.15	U	2.5	0.15
1,1,2-Trichloroethane	5	140		0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	-	-	-	-	-	-	-	-	0.14	U	0.75	0.14	0.14	U	0.75	0.14
1,1-Dichloroethane	160	1,600		0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	-	-	-	-	-	-	-	-	0.21	U	0.75	0.21	0.21	U	0.75	0.21
1,1-Dichloroethene	7	3,800		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	-	-	-	-	-	-	-	-	0.17	U	0.5	0.17	0.17	U	0.5	0.17
1,2,3-Trichlorobenzene	--	--		0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	-	-	-	-	-	-	-	-	0.23	U	2.5	0.23	0.23	U	2.5	0.23
1,2,4-Trichlorobenzene	70	1,000		0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	-	-	-	-	-	-	-	-	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,2,4-Trimethylbenzene	530	6,400		3.7		2.5	0.19	3.7		2.5	0.19	3.5		2.5	0.19	3.5		2.5	0.19	-	-	-	-	-	-	-	-	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,2-Dibromo-3-chloropropane	0.2	22		0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	-	-	-	-	-	-	-	-	0.35	U	2.5	0.35	0.35	U	2.5	0.35
1,2-Dibromoethane	0.05	44		0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	-	-	-	-	-	-	-	-	0.19	U	2	0.19	0.19	U	2	0.19
1,2-Dichlorobenzene	600	69,000		0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	-	-	-	-	-	-	-	-	0.18	U	2.5	0.18	0.18	U	2.5	0.18
1,2-Dichloroethane	5	510		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	-	-	-	-	-	-	-	-	0.13	U	0.5	0.13	0.13	U	0.5	0.13
1,2-Dichloroethene, total	--	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,2-Dichloropropane	5	5		0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	-	-	-	-	-	-	-	-	0.14	U	1	0.14	0.14	U	1	0.14
1,3,5-Trimethylbenzene	530	4,500		4.6		2.5	0.22	4.6		2.5	0.22	4.4		2.5	0.22	4.3		2.5	0.22	-	-	-	-	-	-	-	-	-	-	-	-	0.22	U	2.5	0.22
1,3-Dichlorobenzene	600	--		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,3-Dichloropropene, total	27	1,100		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	-	-	-	-	-	-	-	-	0.14	U	0.5	0.14	0.14	U	0.5	0.14
1,4-Dichlorobenzene	75	680		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	0.19	U	2.5	0.19	0.19	U	2.5	0.19
2-Butanone	4,000	49,000,000		1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	-	-	-	-	-	-	-	-	1.9	U	5	1.9	1.9	U	5	1.9
2-Hexanone	260	200,000		0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	-	-	-	-	-	-	-	-	0.52	U	5	0.52	0.52	U	5	0.52
4-Methyl-2-pentanone	7,800	13,000,000		0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	-	-	-	-	-	-	-	-	0.42	U	5	0.42	0.42	U	5	0.42
Acetone	88,000	470,000,000		1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	5.5		5	1.5	-	-	-	-	-	-	-	-	2.5	J	5	1.5	5.7		5	1.5
Benzene	5	350		3.3		0.5	0.16	3		0.5	0.16	3.3		0.5	0.16	3.9		0.5	0.16	-	-	-	-	-	-	-	-	0.36	J	0.5	0.16	0.16	U	0.5	0.16
Bromochloromethane	90	15,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	-	-	-	-	-	-	-	-	0.15	U	2.5	0.15	0.15	U	2.5	0.15
Bromodichloromethane	80	200		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Bromoform	80	30,000		0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	-	-	-	-	-	-	-	-	0.25	U	2	0.25	0.25	U	2	0.25
Bromomethane	10	330		0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	-	-	-	-	-	-	-	-	0.26	U	1	0.26	0.26	U	1	0.26
Carbon disulfide	6,200	25,000		0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	-	-	-	-	-	-	-	-	0.3	U	5	0.3	0.3	U	5	0.3
Carbon tetrachloride	5	91		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	-	-	-	-	-	-	-	-	0.13	U	0.5	0.13	0.13	U	0.5	0.13
Chlorobenzene	100	9,600		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Chloroethane	88,000	440,000		0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	-	-	-	-	-	-	-	-	0.13	U	1	0.13	0.13	U	1	0.13
Chloroform	80	180		0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	-	-	-	-	-	-	-	-	0.22	U	0.75	0.22	0.22	U	0.75	0.22
Chloromethane	30	810		0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	-	-	-	-	-	-	-	-	0.2	U	2.5	0.2	0.2	U	2.5	0.2
cis-1,2-Dichloroethene	70	--		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	0.19	U	0.5	0.19	0.19	U	0.5	0.19
cis-1,3-Dichloropropene	34	--		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	-	-	-	-	-	-	-	-	0.14	U	0.5	0.14	0.14	U	0.5	0.14
Cyclohexane	53,000	53,000		3.5	J	10	0.27	3.5	J	10	0.27	3.2	J	10	0.27	3.9	J	10	0.27	-	-	-	-	-	-	-	-	0.27	U	10	0.27	0.27	U	10	0.27
Dibromochloromethane	80	670		0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	-	-	-	-	-	-	-	-	0.15	U	0.5	0.15	0.15	U	0.5	0.15
Dichlorodifluoromethane	1,000	1,000		0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	-	-	-	-	-	-	-	-	0.24	U	5	0.24	0.24	U	5	0.24
Ethylbenzene	700	860		0.49	J	0.5	0.17	0.45	J	0.5	0.17	0.45	J	0.5	0.17	0.49	J	0.5	0.17	-	-	-	-	-	-	-	-	0.17	U	0.5	0.17	0.17	U	0.5	0.17
Isopropylbenzene	3,500	24,000		0.43	J	0.5	0.19	0.42	J	0.5	0.19	0.4	J	0.5	0.19	0.34	J	0.5	0.19	-	-	-	-	-	-	-	-	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Methyl acetate	97000	--		0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	-	-	-	-	-	-	-	-	0.23	U	2	0.23	0.23	U	2	0.23
Methyl cyclohexane	--	--		3.6	J	10	0.4	3.4	J	10	0.4	4.1	J	10	0.4	4.4	J	10	0.4	-	-	-	-	-	-	-	-	0.4	U	10	0.4	0.4	U	10	0.4
Methyl tert-butyl ether	20	96,000		2.5		1	0.17	2.2		1	0.17	2.2		1	0.17	1.7		1	0.17	-	-	-	-	-	-	-	-	0.17	U	1	0.17	0.17	U	1	0.17
Methylene chloride	5	95,000		0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	-	-	-	-	-	-	-	-	0.68	U	2.5	0.68	0.68	U	2.5	0.68
Naphthalene	100	1300		7.1		1	0.22	7.4		1	0.22	8		1	0.22	7.2		1	0.22	-	-	-	-	-	-	-	-	-	-	-	-	0.22	U	1	0.22
o-Xylene	10000	--		5.2		1	0.39	4.8		1	0.39	4.5		1	0.39	4.5		1	0.39	-	-	-	-	-	-	-	-	0.39	U	1	0.39	0.39	U	1	0.39
p/m-Xylene	10000	--		2.6		1	0.33	2.3		1	0.33	2.6		1	0.33	2		1	0.33	-	-	-	-	-	-	-	-	0.33	U	1	0.33	0.33	U	1	0.33
Styrene	100	220,000		0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	-	-	-	-	-	-	-	-	0.36	U	1	0.36	0.36	U	1	0.36
Tetrachloroethene	5	1,300		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Toluene	1,000	430,000		1.6		0.75	0.2	1.6		0.75	0.2	1.6		0.75	0.2	1.8		0.75	0.2	-	-	-	-	-	-	-	-	0.2	U	0.75	0.2	0.2	U	0.75	0.2
trans-1,2-Dichloroethene	100	7,600		0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	-	-	-	-	-	-	-	-	0.16	U	0.75	0.16	0.16	U	0.75	0.16
trans-1,3-Dichloropropene	34	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16
Trichloroethene	5	110		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Trichlorofluoromethane	2,000	3,600		0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	-	-	-	-	-	-	-	-	0.16	U	2.5	0.16	0.16	U	2.5	0.16
Vinyl chloride	2	53		0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	-	-	-	-	-	-	-	-	0.07	U	1	0.07	0.07	U	1	0.07
Xylenes, total	10,000	12,000		7.8		1	0.33	7.1		1	0.33	7.1		1	0.33	6.5		1	0.33	-	-	-	-	-	-	-	-	0.33	U	1	0.33	0.33	U	1	0.33
Volatile Organics Compounds - SIM																																					
1,1,2,2-Tetrachloroethane	4.3	820		0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	-	-	-	-	-	-	-	-	0.006	U	0.05	0.006	0.006	U	0.05	0.006
1,4-Dioxane	27	700,000		1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	-	-	-	-	-	-	-	-	1.1	U	3	1.1	1.1	U	3	1.1
Inorganics																																					
Chromium, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	5.794		2	0.178	8.764		1	0.178	9.447		1	0.178	-	-	-	-	-	-	-	-
Lead, dissolved	5	--		0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	-	-	-	-	-	-	-	-	-	-	-	-	0.343	U	1	0.343
Chromium, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.26		1	0.178	36.38		1	0.178	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	U	10	3	3	U	10	3	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	J	10	3	3	U	10	3	-	-	-	-	-	-	-	-

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-3 L2236752-03 7/11/2022 WATER				MW-3 L2260298-03 10/27/2022 WATER				MW-3 L2304271-03 1/25/2023 WATER				MW-3 L2304271-09 (dup) 1/25/2023 WATER				MW-3 L2323142-03 4/28/2023 WATER				MW-3 L2340838-01 7/17/2023 WATER				MW-3 L2358445-02 10/3/2023 WATER				MW-3 L2403900-07 1/23/2024 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																			
1,1,1-Trichloroethane	200	160,000		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
1,1,2-Trichloroethane	5	140		0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14
1,1-Dichloroethane	160	1,600		0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21
1,1-Dichloroethene	7	3,800		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
1,2,3-Trichlorobenzene	--	--		0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23
1,2,4-Trichlorobenzene	70	1,000		0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,2,4-Trimethylbenzene	530	6,400		0.34	J	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,2-Dibromo-3-chloropropane	0.2	22		0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35
1,2-Dibromoethane	0.05	44		0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19
1,2-Dichlorobenzene	600	69,000		0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18
1,2-Dichloroethane	5	510		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
1,2-Dichloroethene, total	--	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,2-Dichloropropane	5	5		0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14
1,3,5-Trimethylbenzene	530	4,500		0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,3-Dichlorobenzene	600	--		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,3-Dichloropropene, total	27	1,100		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
1,4-Dichlorobenzene	75	680		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
2-Butanone	4,000	49,000,000		1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9
2-Hexanone	260	200,000		0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52
4-Methyl-2-pentanone	7,800	13,000,000		0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42
Acetone	88,000	470,000,000		3.4	J	5	1.5	2.8	J	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	2.1	J	5	1.5	1.6	J	5	1.5
Benzene	5	350		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	J	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
Bromochloromethane	90	15,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
Bromodichloromethane	80	200		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Bromoform	80	30,000		0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25
Bromomethane	10	330		0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26
Carbon disulfide	6,200	25,000		0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3
Carbon tetrachloride	5	91		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
Chlorobenzene	100	9,600		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Chloroethane	88,000	440,000		0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13
Chloroform	80	180		0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22
Chloromethane	30	810		0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2
cis-1,2-Dichloroethene	70	--		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
cis-1,3-Dichloropropene	34	--		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
Cyclohexane	53,000	53,000		0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27
Dibromochloromethane	80	670		0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15
Dichlorodifluoromethane	1,000	1,000		0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24
Ethylbenzene	700	860		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
Isopropylbenzene	3,500	24,000		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Methyl acetate	97000	--		0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23
Methyl cyclohexane	--	--		0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4
Methyl tert-butyl ether	20	96,000		0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17
Methylene chloride	5	95,000		0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68
Naphthalene	100	1300		0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22
o-Xylene	10000	--		0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39
p/m-Xylene	10000	--		0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33
Styrene	100	220,000		0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36
Tetrachloroethene	5	1,300		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Toluene	1,000	430,000		0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2
trans-1,2-Dichloroethene	100	7,600		0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16
trans-1,3-Dichloropropene	34	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
Trichloroethene	5	110		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Trichlorofluoromethane	2,000	3,600		0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16
Vinyl chloride	2	53		0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07
Xylenes, total	10,000	12,000		0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33
Volatile Organics Compounds - SIM																																			
1,1,2,2-Tetrachloroethane	4.3	820		0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006
1,4-Dioxane	27	700,000		1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1
Inorganics																																			
Chromium, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead, dissolved	5	--		0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343
Chromium, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-3 L2429997-03 5/30/2024 WATER				MW-3 L2448392-01 8/23/2024 WATER				MW-3 L2448392-05 (Dup) 8/23/2024 WATER				MW-3 L2468822-08 11/21/2024 WATER				MW-4 L2158499-04 10/25/2021 WATER				MW-4 L2216990-04 4/1/2022 WATER				MW-4 L2236752-04 7/11/2022 WATER				MW-4 L2260298-04 10/27/2022 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																						
1,1,1-Trichloroethane	200	160,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
1,1,2-Trichloroethane	5	140		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14
1,1-Dichloroethane	160	1,600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21
1,1-Dichloroethene	7	3,800		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
1,2,3-Trichlorobenzene	--	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23
1,2,4-Trichlorobenzene	70	1,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,2,4-Trimethylbenzene	530	6,400		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.37	J	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,2-Dibromo-3-chloropropane	0.2	22		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35
1,2-Dibromoethane	0.05	44		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19
1,2-Dichlorobenzene	600	69,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18
1,2-Dichloroethane	5	510		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
1,2-Dichloroethene, total	--	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,2-Dichloropropane	5	5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14
1,3,5-Trimethylbenzene	530	4,500		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,3-Dichlorobenzene	600	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,3-Dichloropropene, total	27	1,100		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
1,4-Dichlorobenzene	75	680		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
2-Butanone	4,000	49,000,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9
2-Hexanone	260	200,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52
4-Methyl-2-pentanone	7,800	13,000,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42
Acetone	88,000	470,000,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14		5	1.5	12		5	1.5	8.4		5	1.5	8.8		5	1.5				
Benzene	5	350		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
Bromochloromethane	90	15,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
Bromodichloromethane	80	200		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Bromoform	80	30,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25
Bromomethane	10	330		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26
Carbon disulfide	6,200	25,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3
Carbon tetrachloride	5	91		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
Chlorobenzene	100	9,600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Chloroethane	88,000	440,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13
Chloroform	80	180		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22
Chloromethane	30	810		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2
cis-1,2-Dichloroethene	70	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
cis-1,3-Dichloropropene	34	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
Cyclohexane	53,000	53,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27
Dibromochloromethane	80	670		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15
Dichlorodifluoromethane	1,000	1,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24
Ethylbenzene	700	860		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
Isopropylbenzene	3,500	24,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Methyl acetate	97000	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23
Methyl cyclohexane	--	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4
Methyl tert-butyl ether	20	96,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17
Methylene chloride	5	95,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68
Naphthalene	100	1300		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	U	1	0.22	0.3	J	1	0.22	0.22	U	1	0.22				
o-Xylene	10000	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39
p/m-Xylene	10000	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33
Styrene	100	220,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36
Tetrachloroethene	5	1,300		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Toluene	1,000	430,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2
trans-1,2-Dichloroethene	100	7,600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16
trans-1,3-Dichloropropene	34	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
Trichloroethene	5	110		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Trichlorofluoromethane	2,000	3,600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16
Vinyl chloride	2	53		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07
Xylenes, total	10,000	12,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33
Volatile Organics Compounds - SIM																																						
1,1,2,2-Tetrachloroethane	4.3	820		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006
1,4-Dioxane	27	700,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1
Inorganics																																						
Chromium, Dissolved	100	--		22700		20	3.56	5854		100	17.8	5994		100	17.8	246.9		1	0.178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead, dissolved	5	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5101	J	1	0.343	0.506	J	1	0.343	0.8315	J	1	0.343				
Chromium, Total	100	--		23140		20	3.56	7209		100	17.8	7802		100	17.8	1029		10	1.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Dissolved	100	--		21900		2000	600	6020		500	150	6050		500	150	6	J	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Total	100	--		24800		2000	600	5880		500	150	6310		500	150	17		10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-4 L2304271-04 1/25/2023 WATER				MW-4 L2323142-04 4/28/2023 WATER				MW-4 L2340838-07 7/17/2023 WATER				MW-4 L2358445-04 10/3/2023 WATER				MW-4 L2403900-08 1/23/2024 WATER				MW-4 L2429997-04 5/30/2024 WATER				MW-4 L2448392-03 8/23/2024 WATER				MW-4 L2468822-05 11/21/2024 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																			
1,1,1-Trichloroethane	200	160,000		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	5	140		0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	160	1,600		0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	3,800		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	--	--		0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	70	1,000		0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	530	6,400		1	J	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	0.2	22		0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	0.05	44		0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	600	69,000		0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	5	510		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene, total	--	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	5	5		0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	530	4,500		0.46	J	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	600	--		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene, total	27	1,100		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	75	680		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	4,000	49,000,000		1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	260	200,000		0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	7,800	13,000,000		0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	88,000	470,000,000		9		5	1.5	6.3		5	1.5	7.9		5	1.5	8.1		5	1.5	6.6		5	1.5	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	5	350		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	90	15,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	80	200		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	80	30,000		0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	10	330		0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	6,200	25,000		0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	5	91		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	9,600		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	88,000	440,000		0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	80	180		0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	30	810		0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	70	--		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	34	--		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	53,000	53,000		0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	80	670		0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	1,000	1,000		0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	700	860		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	3,500	24,000		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	97000	--		0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	--	--		0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	20	96,000		0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	5	95,000		0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	100	1300		1		1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	10000	--		0.51	J	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	-	-	-	-	-	-	-	-	-	-	-	-
p/m-Xylene	10000	--		0.78	J	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	100	220,000		0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	1,300		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	1,000	430,000		0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	100	7,600		0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	34	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	110		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	2,000	3,600		0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	2	53		0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, total	10,000	12,000		1.3	J	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organics Compounds - SIM																																			
1,1,2,2-Tetrachloroethane	4.3	820		0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	27	700,000		1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics																																			
Chromium, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21100		20	3.56	22410		500	89	18300		100	17.8
Lead, dissolved	5	--		0.7686	J	1	0.343	0.4398	J	1	0.343	0.5149	J	1	0.343	0.6017	J	1	0.343	0.3658	J	1	0.343	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24060		20	3.56	26930		500	89	19060		100	17.8
Chromium, Hexavalent, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23500		2000	600	21900		1000	300	17800		1000	300
Chromium, Hexavalent, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30800		2000	600	22200		1000	300	17400		1000	300

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-5 L2216990-05 4/1/2022 WATER				MW-5 L2236752-05 7/11/2022 WATER				MW-5 L2236752-09 (Dup) 7/11/2022 WATER				MW-5 L2260298-05 10/27/2022 WATER				MW-5 L2260298-10 (Dup) 10/27/2022 WATER				MW-5 L2304271-05 1/25/2023 WATER				MW-5 L2323142-05 4/28/2023 WATER				MW-5 L2340838-03 7/17/2023 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																					
1,1,1-Trichloroethane	200	160,000		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
1,1,2-Trichloroethane	5	140		0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14
1,1-Dichloroethane	160	1,600		0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21
1,1-Dichloroethene	7	3,800		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
1,2,3-Trichlorobenzene	--	--		0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23
1,2,4-Trichlorobenzene	70	1,000		0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,2,4-Trimethylbenzene	530	6,400		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,2-Dibromo-3-chloropropane	0.2	22		0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35
1,2-Dibromoethane	0.05	44		0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19
1,2-Dichlorobenzene	600	69,000		0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18
1,2-Dichloroethane	5	510		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
1,2-Dichloroethene, total	--	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,2-Dichloropropane	5	5		0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14
1,3,5-Trimethylbenzene	530	4,500		0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,3-Dichlorobenzene	600	--		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,3-Dichloropropene, total	27	1,100		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
1,4-Dichlorobenzene	75	680		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
2-Butanone	4,000	49,000,000		1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9
2-Hexanone	260	200,000		0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52
4-Methyl-2-pentanone	7,800	13,000,000		0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42
Acetone	88,000	470,000,000		1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	13		5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5
Benzene	5	350		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
Bromochloromethane	90	15,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
Bromodichloromethane	80	200		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Bromoform	80	30,000		0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25
Bromomethane	10	330		0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26
Carbon disulfide	6,200	25,000		0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3
Carbon tetrachloride	5	91		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
Chlorobenzene	100	9,600		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Chloroethane	88,000	440,000		0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13
Chloroform	80	180		0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22
Chloromethane	30	810		0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2
cis-1,2-Dichloroethene	70	--		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
cis-1,3-Dichloropropene	34	--		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
Cyclohexane	53,000	53,000		0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27
Dibromochloromethane	80	670		0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15
Dichlorodifluoromethane	1,000	1,000		0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24
Ethylbenzene	700	860		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
Isopropylbenzene	3,500	24,000		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Methyl acetate	97000	--		0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23
Methyl cyclohexane	--	--		0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4
Methyl tert-butyl ether	20	96,000		0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17
Methylene chloride	5	95,000		0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68
Naphthalene	100	1300		0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22
o-Xylene	10000	--		0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39
p/m-Xylene	10000	--		0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33
Styrene	100	220,000		0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36
Tetrachloroethene	5	1,300		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Toluene	1,000	430,000		0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2
trans-1,2-Dichloroethene	100	7,600		0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16
trans-1,3-Dichloropropene	34	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
Trichloroethene	5	110		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Trichlorofluoromethane	2,000	3,600		0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16
Vinyl chloride	2	53		0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07
Xylenes, total	10,000	12,000		0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33
Volatile Organics Compounds - SIM																																					
1,1,2,2-Tetrachloroethane	4.3	820		0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006
1,4-Dioxane	27	700,000		1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1
Inorganics																																					
Chromium, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead, dissolved	5	--		0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343
Chromium, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-5 L2340838-10 (Dup) 7/17/2023 WATER				MW-5 L2358445-07 10/3/2023 WATER				MW-5 L2403900-01 1/23/2024 WATER				MW-5 L2448392-07 8/23/2024 WATER				MW-5 L2468822-03 11/21/2024 WATER				MW-7 L2216990-06 4/1/2022 WATER				MW-7 L2216990-09 (Dup) 4/1/2022 WATER				MW-7 L2236752-06 7/11/2022 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																			
1,1,1-Trichloroethane	200	160,000		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.79	U	2.5	0.79
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	-	-	-	-	-	-	-	-	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.74	U	12	0.74
1,1,2-Trichloroethane	5	140		0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	-	-	-	-	-	-	-	-	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.72	U	3.8	0.72
1,1-Dichloroethane	160	1,600		0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	-	-	-	-	-	-	-	-	0.21	U	0.75	0.21	0.21	U	0.75	0.21	1	U	3.8	1
1,1-Dichloroethene	7	3,800		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	-	-	-	-	-	-	-	-	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.84	U	2.5	0.84
1,2,3-Trichlorobenzene	--	--		0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	-	-	-	-	-	-	-	-	0.23	U	2.5	0.23	0.23	U	2.5	0.23	1.2	U	12	1.2
1,2,4-Trichlorobenzene	70	1,000		0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	-	-	-	-	-	-	-	-	0.22	U	2.5	0.22	0.22	U	2.5	0.22	1.1	U	12	1.1
1,2,4-Trimethylbenzene	530	6,400		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	33		2.5	0.19	34		2.5	0.19	9.8	J	12	0.96
1,2-Dibromo-3-chloropropane	0.2	22		0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	-	-	-	-	-	-	-	-	0.35	U	2.5	0.35	0.35	U	2.5	0.35	1.8	U	12	1.8
1,2-Dibromoethane	0.05	44		0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	-	-	-	-	-	-	-	-	0.19	U	2	0.19	0.19	U	2	0.19	0.96	U	10	0.96
1,2-Dichlorobenzene	600	69,000		0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	-	-	-	-	-	-	-	-	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.92	U	12	0.92
1,2-Dichloroethane	5	510		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	-	-	-	-	-	-	-	-	0.66		0.5	0.13	0.58		0.5	0.13	0.66	U	2.5	0.66
1,2-Dichloroethene, total	--	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.82	U	2.5	0.82
1,2-Dichloropropane	5	5		0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	-	-	-	-	-	-	-	-	0.14	U	1	0.14	0.14	U	1	0.14	0.68	U	5	0.68
1,3,5-Trimethylbenzene	530	4,500		0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	-	-	-	-	-	-	-	-	13		2.5	0.22	14		2.5	0.22	3.8	J	12	1.1
1,3-Dichlorobenzene	600	--		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.93	U	12	0.93
1,3-Dichloropropene, total	27	1,100		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	-	-	-	-	-	-	-	-	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.72	U	2.5	0.72
1,4-Dichlorobenzene	75	680		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.94	U	12	0.94
2-Butanone	4,000	49,000,000		1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	-	-	-	-	-	-	-	-	1.9	U	5	1.9	1.9	U	5	1.9	9.7	U	25	9.7
2-Hexanone	260	200,000		0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	-	-	-	-	-	-	-	-	0.52	U	5	0.52	0.52	U	5	0.52	2.6	U	25	2.6
4-Methyl-2-pentanone	7,800	13,000,000		0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	-	-	-	-	-	-	-	-	0.42	U	5	0.42	0.42	U	5	0.42	2.1	U	25	2.1
Acetone	88,000	470,000,000		1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	-	-	-	-	-	-	-	-	1.5	U	5	1.5	1.5	U	5	1.5	12	J	25	7.3
Benzene	5	350		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	53		0.5	0.16	50		0.5	0.16	37		2.5	0.8
Bromochloromethane	90	15,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	-	-	-	-	-	-	-	-	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.76	U	12	0.76
Bromodichloromethane	80	200		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.96	U	2.5	0.96
Bromoform	80	30,000		0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	-	-	-	-	-	-	-	-	0.25	U	2	0.25	0.25	U	2	0.25	1.2	U	10	1.2
Bromomethane	10	330		0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	-	-	-	-	-	-	-	-	0.26	U	1	0.26	0.26	U	1	0.26	1.3	U	5	1.3
Carbon disulfide	6,200	25,000		0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	-	-	-	-	-	-	-	-	0.64	J	5	0.3	0.59	J	5	0.3	1.5	U	25	1.5
Carbon tetrachloride	5	91		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	-	-	-	-	-	-	-	-	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.67	U	2.5	0.67
Chlorobenzene	100	9,600		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.89	U	2.5	0.89
Chloroethane	88,000	440,000		0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	-	-	-	-	-	-	-	-	0.13	U	1	0.13	0.13	U	1	0.13	0.67	U	5	0.67
Chloroform	80	180		0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	-	-	-	-	-	-	-	-	0.22	U	0.75	0.22	0.22	U	0.75	0.22	1.1	U	3.8	1.1
Chloromethane	30	810		0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	-	-	-	-	-	-	-	-	0.2	U	2.5	0.2	0.2	U	2.5	0.2	1	U	12	1
cis-1,2-Dichloroethene	70	--		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.94	U	2.5	0.94
cis-1,3-Dichloropropene	34	--		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	-	-	-	-	-	-	-	-	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.72	U	2.5	0.72
Cyclohexane	53,000	53,000		0.27	U	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	-	-	-	-	-	-	-	-	7.7	J	10	0.27	8.2	J	10	0.27	2.6	J	50	1.4
Dibromochloromethane	80	670		0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	-	-	-	-	-	-	-	-	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.74	U	2.5	0.74
Dichlorodifluoromethane	1,000	1,000		0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	-	-	-	-	-	-	-	-	0.24	U	5	0.24	0.24	U	5	0.24	1.2	U	25	1.2
Ethylbenzene	700	860		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	-	-	-	-	-	-	-	-	7		0.5	0.17	7.2		0.5	0.17	2.4	J	2.5	0.84
Isopropylbenzene	3,500	24,000		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	2.3		0.5	0.19	2.7		0.5	0.19	0.94	J	2.5	0.94
Methyl acetate	97000	--		0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	-	-	-	-	-	-	-	-	0.23	U	2	0.23	0.23	U	2	0.23	1.2	U	10	1.2
Methyl cyclohexane	--	--		0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	-	-	-	-	-	-	-	-	8.2	J	10	0.4	8.4	J	10	0.4	3.3	J	50	2
Methyl tert-butyl ether	20	96,000		0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	-	-	-	-	-	-	-	-	0.83	J	1	0.17	0.87	J	1	0.17	0.83	U	5	0.83
Methylene chloride	5	95,000		0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	-	-	-	-	-	-	-	-	0.68	U	2.5	0.68	0.68	U	2.5	0.68	3.4	U	12	3.4
Naphthalene	100	1300		0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	-	-	-	-	-	-	-	-	7.5		1	0.22	8.8		1	0.22	4.2	J	5	1.1
o-Xylene	10000	--		0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	-	-	-	-	-	-	-	-	3.8		1	0.39	4		1	0.39	2	U	5	2
p/m-Xylene	10000	--		0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	-	-	-	-	-	-	-	-	8.5		1	0.33	8.9		1	0.33	2.8	J	5	1.7
Styrene	100	220,000		0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	-	-	-	-	-	-	-	-	0.36	U	1	0.36	0.36	U	1	0.36	1.8	U	5	1.8
Tetrachloroethene	5	1,300		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.9	U	2.5	0.9
Toluene	1,000	430,000		0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	-	-	-	-	-	-	-	-	7		0.75	0.2	7.2		0.75	0.2	3.3	J	3.8	1
trans-1,2-Dichloroethene	100	7,600		0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	-	-	-	-	-	-	-	-	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.82	U	3.8	0.82
trans-1,3-Dichloropropene	34	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.82	U	2.5	0.82
Trichloroethene	5	110		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.88	U	2.5	0.88
Trichlorofluoromethane	2,000	3,600		0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	-	-	-	-	-	-	-	-	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.8	U	12	0.8
Vinyl chloride	2	53		0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	-	-	-	-	-	-	-	-	0.07	U	1	0.07	0.07	U	1	0.07	0.36	U	5	0.36
Xylenes, total	10,000	12,000		0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	-	-	-	-	-	-	-	-	12		1	0.33	13		1	0.33	2.8	J	5	1.7
Volatile Organics Compounds - SIM																																			
1,1,2,2-Tetrachloroethane	4.3	820		0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	-	-	-	-	-	-	-	-	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.029	U	0.25	0.029
1,4-Dioxane	27	700,000		1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	-	-	-	-	-	-	-	-	1.1	U	3	1.1	1.1	U	3	1.1	5.4	U	15	5.4
Inorganics																																			
Chromium, Dissolved	100	--		-	-	-	-	-	-	-	-	5.28		2	0.178	1.978		1	0.178	0.3532	J	1	0.178	-	-	-	-	-	-	-	-	-	-	-	-
Lead, dissolved	5	--		0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	-	-	-	-	-	-	-	-	1.786		1	0.343	2.161		1	0.343	0.5604	J	1	0.343
Chromium, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	4.304		1	0.178	1.322		1	0.178	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	3	U	10	3	3	U	10	3	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	3	U	10	3	15	U	50	15	-	-	-	-	-	-	-	-	-	-	-	-

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-7 L2260298-06 10/27/2022 WATER				MW-7 L2304271-06 1/25/2023 WATER				MW-7 L2323142-06 4/28/2023 WATER				MW-7 L2343291-01 7/27/2023 WATER				MW-7 L2358445-06 10/3/2023 WATER				MW-7 L2358445-09 (Dup) 10/3/2023 WATER				MW-7 L2403900-04 1/23/2024 WATER				MW-7 L2403900-09 (Dup) 1/23/2024 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																					
1,1,1-Trichloroethane	200	160,000		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
1,1,2-Trichloroethane	5	140		0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14
1,1-Dichloroethane	160	1,600		0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21
1,1-Dichloroethene	7	3,800		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
1,2,3-Trichlorobenzene	--	--		0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23
1,2,4-Trichlorobenzene	70	1,000		0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,2,4-Trimethylbenzene	530	6,400		15		2.5	0.19	4.9		2.5	0.19	4.2		2.5	0.19	9.3		2.5	0.19	17		2.5	0.19	13		2.5	0.19	4.5		2.5	0.19	4.8		2.5	0.19				
1,2-Dibromo-3-chloropropane	0.2	22		0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35
1,2-Dibromoethane	0.05	44		0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19
1,2-Dichlorobenzene	600	69,000		0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18
1,2-Dichloroethane	5	510		0.79		0.5	0.13	0.51		0.5	0.13	0.47	J	0.5	0.13	0.5		0.5	0.13	0.72		0.5	0.13	0.73		0.5	0.13	0.56		0.5	0.13	0.54		0.5	0.13				
1,2-Dichloroethene, total	--	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.26	J	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,2-Dichloropropane	5	5		0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14
1,3,5-Trimethylbenzene	530	4,500		5.9		2.5	0.22	2.7		2.5	0.22	1.8	J	2.5	0.22	4		2.5	0.22	5.4		2.5	0.22	4.2		2.5	0.22	1.8	J	2.5	0.22	1.9	J	2.5	0.22				
1,3-Dichlorobenzene	600	--		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,3-Dichloropropene, total	27	1,100		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
1,4-Dichlorobenzene	75	680		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
2-Butanone	4,000	49,000,000		2.6	J	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9
2-Hexanone	260	200,000		0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52
4-Methyl-2-pentanone	7,800	13,000,000		0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42
Acetone	88,000	470,000,000		1.5	U	5	1.5	17		5	1.5	1.5	U	5	1.5	19		5	1.5	22		5	1.5	20		5	1.5	1.5	U	5	1.5	11		5	1.5				
Benzene	5	350		74		0.5	0.16	44		0.5	0.16	41		0.5	0.16	33		0.5	0.16	64		0.5	0.16	64		0.5	0.16	50		0.5	0.16	47		0.5	0.16				
Bromochloromethane	90	15,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
Bromodichloromethane	80	200		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Bromoform	80	30,000		0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25
Bromomethane	10	330		0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26
Carbon disulfide	6,200	25,000		0.59	J	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3
Carbon tetrachloride	5	91		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
Chlorobenzene	100	9,600		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Chloroethane	88,000	440,000		0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.15	J	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13
Chloroform	80	180		0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22
Chloromethane	30	810		0.2	U	2.5	0.2	0.68	J	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2
cis-1,2-Dichloroethene	70	--		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.26	J	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
cis-1,3-Dichloropropene	34	--		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
Cyclohexane	53,000	53,000		8.9	J	10	0.27	4	J	10	0.27	4.1	J	10	0.27	6.2	J	10	0.27	11		10	0.27	9.6	J	10	0.27	5.8	J	10	0.27	5.5	J	10	0.27				
Dibromochloromethane	80	670		0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15
Dichlorodifluoromethane	1,000	1,000		0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24
Ethylbenzene	700	860		6.3		0.5	0.17	1.9		0.5	0.17	1.8		0.5	0.17	3		0.5	0.17	8.8		0.5	0.17	6.8		0.5	0.17	2.5		0.5	0.17	2.4		0.5	0.17				
Isopropylbenzene	3,500	24,000		2		0.5	0.19	0.78		0.5	0.19	0.74		0.5	0.19	1		0.5	0.19	2.6		0.5	0.19	2.1		0.5	0.19	0.87		0.5	0.19	0.96		0.5	0.19				
Methyl acetate	97000	--		0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23
Methyl cyclohexane	--	--		8.1	J	10	0.4	4	J	10	0.4	3.7	J	10	0.4	6.5	J	10	0.4	8.2	J	10	0.4	7.2	J	10	0.4	4.6	J	10	0.4	4.9	J	10	0.4				
Methyl tert-butyl ether	20	96,000		1		1	0.17	0.86	J	1	0.17	0.88	J	1	0.17	0.39	J	1	0.17	0.95	J	1	0.17	0.92	J	1	0.17	0.55	J	1	0.17	0.55	J	1	0.17				
Methylene chloride	5	95,000		0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68
Naphthalene	100	1300		5.8		1	0.22	1.3		1	0.22	1.7		1	0.22	2.7		1	0.22	9.3		1	0.22	7		1	0.22	1.8		1	0.22	2.3		1	0.22				
o-Xylene	10000	--		5.5		1	0.39	1.6		1	0.39	1.3		1	0.39	2.2		1	0.39	8		1	0.39	6.2		1	0.39	1.8		1	0.39	2		1	0.39				
p/m-Xylene	10000	--		14		1	0.33	3		1	0.33	2.7		1	0.33	6.2		1	0.33	22		1	0.33	17		1	0.33	4.4		1	0.33	4.8		1	0.33				
Styrene	100	220,000		0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36
Tetrachloroethene	5	1,300		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Toluene	1,000	430,000		12		0.75	0.2	3.8		0.75	0.2	3.4		0.75	0.2	6.2		0.75	0.2	16		0.75	0.2	13		0.75	0.2	5.9		0.75	0.2	5.6		0.75	0.2				
trans-1,2-Dichloroethene	100	7,600		0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16
trans-1,3-Dichloropropene	34	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
Trichloroethene	5	110		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Trichlorofluoromethane	2,000	3,600		0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16
Vinyl chloride	2	53		0.12	J	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.09	J	1	0.07	0.08	J	1	0.07	0.08	J	1	0.07	0.08	J	1	0.07	0.08	J	1	0.07
Xylenes, total	10,000	12,000		20		1	0.33	4.6		1	0.33	4		1	0.33	8.4		1	0.33	30		1	0.33	23		1	0.33	6.2		1	0.33	6.8		1	0.33				
Volatile Organics Compounds - SIM																																					
1,1,2,2-Tetrachloroethane	4.3	820		0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006
1,4-Dioxane	27	700,000		1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1
Inorganics																																					
Chromium, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead, dissolved	5	--		1.429		1	0.343	1.015		1	0.343	0.343	U	1	0.343	1.715	U	5	1.715	1.148		1	0.343	0.9488	J	1	0.343	0.3492	J	1	0.343	0.3736	J	1	0.343				
Chromium, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-7 L2429997-01 5/30/2024 WATER				MW-7 L2429997-05 (Dup) 5/30/2024 WATER				MW-7 L2448392-06 8/23/2024 WATER				MW-7 L2468822-01 11/21/2024 WATER				MW-7 L2468822-10 (Dup) 11/21/2024 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																							
1,1,1-Trichloroethane	200	160,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	5	140		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	160	1,600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	3,800		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	--	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	70	1,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	530	6,400		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	0.2	22		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	0.05	44		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	600	69,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	5	510		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene, total	--	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	5	5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	530	4,500		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	600	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene, total	27	1,100		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	75	680		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	4,000	49,000,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	260	200,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	7,800	13,000,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	88,000	470,000,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	5	350		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	90	15,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	80	200		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	80	30,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	10	330		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	6,200	25,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	5	91		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	9,600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	88,000	440,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	80	180		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	30	810		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	70	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	34	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	53,000	53,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	80	670		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	1,000	1,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	700	860		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	3,500	24,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	97000	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	--	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	20	96,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	5	95,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	100	1300		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	10000	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p/m-Xylene	10000	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	100	220,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	1,300		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	1,000	430,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	100	7,600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	34	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	110		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	2,000	3,600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	2	53		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, total	10,000	12,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organics Compounds - SIM																							
1,1,2,2-Tetrachloroethane	4.3	820		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	27	700,000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics																							
Chromium, Dissolved	100	--		20600		10	1.78	19090		20	3.56	19920		500	89	19680		50	8.9	21650		100	17.8
Lead, dissolved	5	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Total	100	--		19380		20	3.56	22230		20	3.56	23180		500	89	20930		100	17.8	22460		50	8.9
Chromium, Hexavalent, Dissolved	100	--		18300		2000	600	19200		2000	600	19200		1000	300	18800		1000	300	19300		1000	300
Chromium, Hexavalent, Total	100	--		23100		2000	600	22900		2000	600	15800		1000	300	18400		1000	300	20800		1000	300

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-8 L2216990-07 4/1/2022 WATER				MW-8 L2236752-07 7/11/2022 WATER				MW-8 L2260298-07 10/27/2022 WATER				MW-8 L2304271-07 1/25/2023 WATER				MW-8 L2323142-07 4/28/2023 WATER				MW-8 L2323142-10 (Dup) 4/28/2023 WATER				MW-8 L2340838-02 7/17/2023 WATER				MW-8 L2358445-08 10/3/2023 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																					
1,1,1-Trichloroethane	200	160,000		0.16	U	0.5	0.16	0.32	U	1	0.32	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		0.15	U	2.5	0.15	0.3	U	5	0.3	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
1,1,2-Trichloroethane	5	140		0.14	U	0.75	0.14	0.29	U	1.5	0.29	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14
1,1-Dichloroethane	160	1,600		0.21	U	0.75	0.21	0.42	U	1.5	0.42	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21
1,1-Dichloroethene	7	3,800		0.17	U	0.5	0.17	0.34	U	1	0.34	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
1,2,3-Trichlorobenzene	--	--		0.23	U	2.5	0.23	0.47	U	5	0.47	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23
1,2,4-Trichlorobenzene	70	1,000		0.22	U	2.5	0.22	0.44	U	5	0.44	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,2,4-Trimethylbenzene	530	6,400		0.19	U	2.5	0.19	0.73	J	5	0.38	0.54	J	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,2-Dibromo-3-chloropropane	0.2	22		0.35	U	2.5	0.35	0.71	U	5	0.71	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35
1,2-Dibromoethane	0.05	44		0.19	U	2	0.19	0.39	U	4	0.39	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19
1,2-Dichlorobenzene	600	69,000		0.25	J	2.5	0.18	0.87	J	5	0.37	0.76	J	2.5	0.18	0.58	J	2.5	0.18	0.43	J	2.5	0.18	0.44	J	2.5	0.18	0.51	J	2.5	0.18	0.39	J	2.5	0.18	0.39	J	2.5	0.18
1,2-Dichloroethane	5	510		0.13	U	0.5	0.13	0.26	U	1	0.26	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
1,2-Dichloroethene, total	--	--		0.16	U	0.5	0.16	0.33	U	1	0.33	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,2-Dichloropropane	5	5		0.14	U	1	0.14	0.27	U	2	0.27	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14
1,3,5-Trimethylbenzene	530	4,500		0.22	U	2.5	0.22	0.43	U	5	0.43	0.23	J	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,3-Dichlorobenzene	600	--		0.19	U	2.5	0.19	0.37	U	5	0.37	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.2	J	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,3-Dichloropropene, total	27	1,100		0.14	U	0.5	0.14	0.29	U	1	0.29	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
1,4-Dichlorobenzene	75	680		0.19	U	2.5	0.19	0.37	U	5	0.37	0.28	J	2.5	0.19	0.22	J	2.5	0.19	0.19	U	2.5	0.19	0.2	J	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
2-Butanone	4,000	49,000,000		1.9	U	5	1.9	13		10	3.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9
2-Hexanone	260	200,000		0.52	U	5	0.52	1	U	10	1	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52	0.52	U	5	0.52
4-Methyl-2-pentanone	7,800	13,000,000		0.42	U	5	0.42	0.83	U	10	0.83	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42	0.42	U	5	0.42
Acetone	88,000	470,000,000		1.5	U	5	1.5	2.9	U	10	2.9	1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5	1.5	U	5	1.5
Benzene	5	350		0.16	U	0.5	0.16	0.32	U	1	0.32	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
Bromochloromethane	90	15,000		0.15	U	2.5	0.15	0.3	U	5	0.3	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
Bromodichloromethane	80	200		0.19	U	0.5	0.19	0.38	U	1	0.38	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Bromoform	80	30,000		0.25	U	2	0.25	0.5	U	4	0.5	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25
Bromomethane	10	330		0.26	U	1	0.26	0.51	U	2	0.51	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26
Carbon disulfide	6,200	25,000		0.3	U	5	0.3	0.6	U	10	0.6	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3
Carbon tetrachloride	5	91		0.13	U	0.5	0.13	0.27	U	1	0.27	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
Chlorobenzene	100	9,600		0.22	J	0.5	0.18	0.36	U	1	0.36	0.21	J	0.5	0.18	0.19	J	0.5	0.18	0.24	J	0.5	0.18	0.24	J	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Chloroethane	88,000	440,000		0.13	U	1	0.13	0.27	U	2	0.27	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13
Chloroform	80	180		0.22	U	0.75	0.22	0.44	U	1.5	0.44	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22
Chloromethane	30	810		0.2	U	2.5	0.2	0.4	U	5	0.4	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2
cis-1,2-Dichloroethene	70	--		0.19	U	0.5	0.19	0.37	U	1	0.37	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
cis-1,3-Dichloropropene	34	--		0.14	U	0.5	0.14	0.29	U	1	0.29	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
Cyclohexane	53,000	53,000		5.8	J	10	0.27	8.5	J	20	0.54	8.7	J	10	0.27	4.6	J	10	0.27	3	J	10	0.27	2.9	J	10	0.27	3.3	J	10	0.27	2	J	10	0.27	2	J	10	0.27
Dibromochloromethane	80	670		0.15	U	0.5	0.15	0.3	U	1	0.3	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15
Dichlorodifluoromethane	1,000	1,000		0.24	U	5	0.24	0.49	U	10	0.49	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24
Ethylbenzene	700	860		0.17	U	0.5	0.17	0.33	U	1	0.33	0.22	J	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
Isopropylbenzene	3,500	24,000		3		0.5	0.19	30		1	0.37	21		0.5	0.19	8.3		0.5	0.19	6.5		0.5	0.19	6		0.5	0.19	13		0.5	0.19	5.4		0.5	0.19				
Methyl acetate	97000	--		0.23	U	2	0.23	0.47	U	4	0.47	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23
Methyl cyclohexane	--	--		5.2	J	10	0.4	14	J	20	0.79	12		10	0.4	6.2	J	10	0.4	4.9	J	10	0.4	4.9	J	10	0.4	4.1	J	10	0.4	3.4	J	10	0.4				
Methyl tert-butyl ether	20	96,000		0.17	U	1	0.17	0.33	U	2	0.33	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17
Methylene chloride	5	95,000		0.68	U	2.5	0.68	1.4	U	5	1.4	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68
Naphthalene	100	1300		0.36	J	1	0.22	1.3	J	2	0.43	0.76	J	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22	0.3	J	1	0.22	0.22	U	1	0.22	0.22	U	1	0.22
o-Xylene	10000	--		0.39	U	1	0.39	0.78	U	2	0.78	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39
p/m-Xylene	10000	--		0.33	U	1	0.33	0.66	U	2	0.66	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33
Styrene	100	220,000		0.36	U	1	0.36	0.72	U	2	0.72	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36
Tetrachloroethene	5	1,300		0.18	U	0.5	0.18	0.36	U	1	0.36	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Toluene	1,000	430,000		0.2	U	0.75	0.2	0.41	U	1.5	0.41	0.21	J	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	J	0.75	0.2	2.5		0.75	0.2				
trans-1,2-Dichloroethene	100	7,600		0.16	U	0.75	0.16	0.33	U	1.5	0.33	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16
trans-1,3-Dichloropropene	34	--		0.16	U	0.5	0.16	0.33	U	1	0.33	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
Trichloroethene	5	110		0.18	U	0.5	0.18	0.35	U	1	0.35	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Trichlorofluoromethane	2,000	3,600		0.16	U	2.5	0.16	0.32	U	5	0.32	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16
Vinyl chloride	2	53		0.07	U	1	0.07	0.14	U	2	0.14	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07
Xylenes, total	10,000	12,000		0.33	U	1	0.33	0.66	U	2	0.66	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33
Volatile Organic Compounds - SIM																																					
1,1,2,2-Tetrachloroethane	4.3	820		0.006	U	0.05	0.006	0.011	U	0.1	0.011	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006
1,4-Dioxane	27	700,000		1.1	U	3	1.1	2.1	U	6	2.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1
Inorganics																																					
Chromium, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead, dissolved	5	--		0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343
Chromium, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-8 L2403900-02 1/23/2024 WATER				MW-8 L2448392-08 8/23/2024 WATER				MW-8 L2468822-02 11/21/2024 WATER				MW-9 L2216990-08 4/1/2022 WATER				MW-9 L2236752-08 7/11/2022 WATER				MW-9 L2260298-08 10/27/2022 WATER				MW-9 L2304271-08 1/25/2023 WATER				MW-9 L2323142-08 4/28/2023 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																																					
1,1,1-Trichloroethane	200	160,000		0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		0.15	U	2.5	0.15	-	-	-	-	-	-	-	-	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
1,1,2-Trichloroethane	5	140		0.14	U	0.75	0.14	-	-	-	-	-	-	-	-	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14
1,1-Dichloroethane	160	1,600		0.21	U	0.75	0.21	-	-	-	-	-	-	-	-	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21
1,1-Dichloroethene	7	3,800		0.17	U	0.5	0.17	-	-	-	-	-	-	-	-	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17
1,2,3-Trichlorobenzene	--	--		0.23	U	2.5	0.23	-	-	-	-	-	-	-	-	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23
1,2,4-Trichlorobenzene	70	1,000		0.22	U	2.5	0.22	-	-	-	-	-	-	-	-	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22
1,2,4-Trimethylbenzene	530	6,400		0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	180		2.5	0.19	100		2.5	0.19	140		2.5	0.19	160		2.5	0.19	200		2.5	0.19				
1,2-Dibromo-3-chloropropane	0.2	22		0.35	U	2.5	0.35	-	-	-	-	-	-	-	-	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35
1,2-Dibromoethane	0.05	44		0.19	U	2	0.19	-	-	-	-	-	-	-	-	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19
1,2-Dichlorobenzene	600	69,000		0.37	J	2.5	0.18	-	-	-	-	-	-	-	-	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18
1,2-Dichloroethane	5	510		0.13	U	0.5	0.13	-	-	-	-	-	-	-	-	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
1,2-Dichloroethene, total	--	--		0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
1,2-Dichloropropane	5	5		0.14	U	1	0.14	-	-	-	-	-	-	-	-	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14
1,3,5-Trimethylbenzene	530	4,500		0.22	U	2.5	0.22	-	-	-	-	-	-	-	-	60		2.5	0.22	34		2.5	0.22	52		2.5	0.22	62		2.5	0.22	64		2.5	0.22				
1,3-Dichlorobenzene	600	--		0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
1,3-Dichloropropene, total	27	1,100		0.14	U	0.5	0.14	-	-	-	-	-	-	-	-	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
1,4-Dichlorobenzene	75	680		0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19
2-Butanone	4,000	49,000,000		1.9	U	5	1.9	-	-	-	-	-	-	-	-	22		5	1.9	15		5	1.9	14		5	1.9	23		5	1.9	27		5	1.9				
2-Hexanone	260	200,000		0.52	U	5	0.52	-	-	-	-	-	-	-	-	3.7	J	5	0.52	2.1	J	5	0.52	2	J	5	0.52	3.5	J	5	0.52	3.3	J	5	0.52				
4-Methyl-2-pentanone	7,800	13,000,000		0.42	U	5	0.42	-	-	-	-	-	-	-	-	0.42	U	5	0.42	0.42	U	5	0.42	1.2	J	5	0.42	1.8	J	5	0.42	1.6	J	5	0.42				
Acetone	88,000	470,000,000		1.5	U	5	1.5	-	-	-	-	-	-	-	-	110		5	1.5	96		5	1.5	100		5	1.5	130		5	1.5	130		5	1.5				
Benzene	5	350		0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	1.3		0.5	0.16	1.3		0.5	0.16	1.4		0.5	0.16	2.2		0.5	0.16	2.6		0.5	0.16				
Bromochloromethane	90	15,000		0.15	U	2.5	0.15	-	-	-	-	-	-	-	-	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15
Bromodichloromethane	80	200		0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
Bromoform	80	30,000		0.25	U	2	0.25	-	-	-	-	-	-	-	-	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25
Bromomethane	10	330		0.26	U	1	0.26	-	-	-	-	-	-	-	-	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26
Carbon disulfide	6,200	25,000		0.3	U	5	0.3	-	-	-	-	-	-	-	-	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3
Carbon tetrachloride	5	91		0.13	U	0.5	0.13	-	-	-	-	-	-	-	-	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13
Chlorobenzene	100	9,600		0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Chloroethane	88,000	440,000		0.13	U	1	0.13	-	-	-	-	-	-	-	-	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13
Chloroform	80	180		0.22	U	0.75	0.22	-	-	-	-	-	-	-	-	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22
Chloromethane	30	810		0.2	U	2.5	0.2	-	-	-	-	-	-	-	-	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2
cis-1,2-Dichloroethene	70	--		0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19
cis-1,3-Dichloropropene	34	--		0.14	U	0.5	0.14	-	-	-	-	-	-	-	-	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14
Cyclohexane	53,000	53,000		2.1	J	10	0.27	-	-	-	-	-	-	-	-	0.34	J	10	0.27	0.27	U	10	0.27	0.27	U	10	0.27	0.43	J	10	0.27	0.35	J	10	0.27	0.27	U	10	0.27
Dibromochloromethane	80	670		0.15	U	0.5	0.15	-	-	-	-	-	-	-	-	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15
Dichlorodifluoromethane	1,000	1,000		0.24	U	5	0.24	-	-	-	-	-	-	-	-	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24
Ethylbenzene	700	860		0.17	U	0.5	0.17	-	-	-	-	-	-	-	-	17		0.5	0.17	11		0.5	0.17	15		0.5	0.17	20		0.5	0.17	22		0.5	0.17				
Isopropylbenzene	3,500	24,000		5.2		0.5	0.19	-	-	-	-	-	-	-	-	8.8		0.5	0.19	4.9		0.5	0.19	7.2		0.5	0.19	9		0.5	0.19	8.5		0.5	0.19				
Methyl acetate	97000	--		0.23	U	2	0.23	-	-	-	-	-	-	-	-	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23
Methyl cyclohexane	--	--		0.4	U	10	0.4	-	-	-	-	-	-	-	-	3.6	J	10	0.4	1.8	J	10	0.4	3.7	J	10	0.4	4.6	J	10	0.4	4.7	J	10	0.4				
Methyl tert-butyl ether	20	96,000		0.17	U	1	0.17	-	-	-	-	-	-	-	-	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17
Methylene chloride	5	95,000		0.68	U	2.5	0.68	-	-	-	-	-	-	-	-	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68
Naphthalene	100	1300		0.22	U	1	0.22	-	-	-	-	-	-	-	-	150		1	0.22	41		1	0.22	99		1	0.22	95		1	0.22	120		2	0.43				
o-Xylene	10000	--		0.39	U	1	0.39	-	-	-	-	-	-	-	-	81		1	0.39	76		1	0.39	77		1	0.39	96		1	0.39	110		1	0.39				
p/m-Xylene	10000	--		0.33	U	1	0.33	-	-	-	-	-	-	-	-	110		1	0.33	88		1	0.33	98		1	0.33	130		1	0.33	160		1	0.33				
Styrene	100	220,000		0.36	U	1	0.36	-	-	-	-	-	-	-	-	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36
Tetrachloroethene	5	1,300		0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Toluene	1,000	430,000		0.2	U	0.75	0.2	-	-	-	-	-	-	-	-	14		0.75	0.2	14		0.75	0.2	15		0.75	0.2	20		0.75	0.2	22		0.75	0.2				
trans-1,2-Dichloroethene	100	7,600		0.16	U	0.75	0.16	-	-	-	-	-	-	-	-	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16
trans-1,3-Dichloropropene	34	--		0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16
Trichloroethene	5	110		0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18
Trichlorofluoromethane	2,000	3,600		0.16	U	2.5	0.16	-	-	-	-	-	-	-	-	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16
Vinyl chloride	2	53		0.07	U	1	0.07	-	-	-	-	-	-	-	-	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07
Xylenes, total	10,000	12,000		0.33	U	1	0.33	-	-	-	-	-	-	-	-	190		1	0.33	160		1	0.33	180		1	0.33	230		1	0.33	270		1	0.33				
Volatile Organic Compounds - SIM																																					
1,1,2,2-Tetrachloroethane	4.3	820		0.006	U	0.05	0.006	-	-	-	-	-	-	-	-	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006
1,4-Dioxane	27	700,000		1.1	U	3	1.1	-	-	-	-	-	-	-	-	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1
Inorganics																																					
Chromium, Dissolved	100	--		1.222		1	0.178	0.7479	J	1	0.178	10.18		1	0.178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead, dissolved	5	--		0.343	U	1	0.343	-	-	-	-	-	-	-	-	65.15		1	0.343	27.7		1	0.343	42.16		1	0.343	23.53		1	0.343	21.75		1	0.343				
Chromium, Total	100	--		-	-	-	-	2.849		1	0.178	222.3		1	0.178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Dissolved	100	--		-	-	-	-	3	U	10	3	3	U	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Hexavalent, Total	100	--		-	-	-	-	8	J	10	3	3	U	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Pennsylvania Non-Residential Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-9 L2340838-05 7/17/2023 WATER				MW-9 L2358445-03 10/3/2023 WATER				MW-9 L2403900-03 1/23/2024 WATER				MW-9 L2429997-02 5/30/2024 WATER				MW-9 L2448392-04 8/23/2024 WATER				MW-9 L2468822-06 11/21/2024 WATER			
				Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds																											
1,1,1-Trichloroethane	200	160,000		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	44,000	44,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	5	140		0.14	U	0.75	0.14	0.14	U	0.75	0.14	0.14	U	0.75	0.14	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	160	1,600		0.21	U	0.75	0.21	0.21	U	0.75	0.21	0.21	U	0.75	0.21	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	3,800		0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	--	--		0.23	U	2.5	0.23	0.23	U	2.5	0.23	0.23	U	2.5	0.23	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	70	1,000		0.22	U	2.5	0.22	0.22	U	2.5	0.22	0.22	U	2.5	0.22	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	530	6,400		96		2.5	0.19	110		2.5	0.19	150		2.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	0.2	22		0.35	U	2.5	0.35	0.35	U	2.5	0.35	0.35	U	2.5	0.35	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	0.05	44		0.19	U	2	0.19	0.19	U	2	0.19	0.19	U	2	0.19	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	600	69,000		0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	5	510		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene, total	--	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	5	5		0.14	U	1	0.14	0.14	U	1	0.14	0.14	U	1	0.14	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	530	4,500		37		2.5	0.22	38		2.5	0.22	48		2.5	0.22	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	600	--		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene, total	27	1,100		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	75	680		0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	4,000	49,000,000		8.5		5	1.9	13		5	1.9	13		5	1.9	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	260	200,000		1.4	J	5	0.52	0.86	J	5	0.52	0.52	U	5	0.52	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	7,800	13,000,000		0.42	U	5	0.42	0.83	J	5	0.42	0.42	U	5	0.42	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	88,000	470,000,000		84		5	1.5	120		5	1.5	130		5	1.5	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	5	350		1.3		0.5	0.16	1.1		0.5	0.16	1.3		0.5	0.16	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	90	15,000		0.15	U	2.5	0.15	0.15	U	2.5	0.15	0.15	U	2.5	0.15	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	80	200		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	80	30,000		0.25	U	2	0.25	0.25	U	2	0.25	0.25	U	2	0.25	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	10	330		0.26	U	1	0.26	0.26	U	1	0.26	0.26	U	1	0.26	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	6,200	25,000		0.3	U	5	0.3	0.3	U	5	0.3	0.3	U	5	0.3	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	5	91		0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	9,600		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	88,000	440,000		0.13	U	1	0.13	0.13	U	1	0.13	0.13	U	1	0.13	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	80	180		0.22	U	0.75	0.22	0.22	U	0.75	0.22	0.22	U	0.75	0.22	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	30	810		0.2	U	2.5	0.2	0.2	U	2.5	0.2	0.2	U	2.5	0.2	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	70	--		0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	34	--		0.14	U	0.5	0.14	0.14	U	0.5	0.14	0.14	U	0.5	0.14	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	53,000	53,000		0.31	J	10	0.27	0.27	U	10	0.27	0.31	J	10	0.27	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	80	670		0.15	U	0.5	0.15	0.15	U	0.5	0.15	0.15	U	0.5	0.15	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	1,000	1,000		0.24	U	5	0.24	0.24	U	5	0.24	0.24	U	5	0.24	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	700	860		9		0.5	0.17	11		0.5	0.17	9.5		0.5	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	3,500	24,000		4.8		0.5	0.19	5.4		0.5	0.19	5.2		0.5	0.19	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	97000	--		0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	--	--		2.8	J	10	0.4	3.3	J	10	0.4	3.6	J	10	0.4	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	20	96,000		0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	5	95,000		0.68	U	2.5	0.68	0.68	U	2.5	0.68	0.68	U	2.5	0.68	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	100	1300		62		1	0.22	72		1	0.22	96		1	0.22	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	10000	--		47		1	0.39	61		1	0.39	54		1	0.39	-	-	-	-	-	-	-	-	-	-	-	-
p/m-Xylene	10000	--		59		1	0.33	73		1	0.33	69		1	0.33	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	100	220,000		0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	1,300		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	1,000	430,000		10		0.75	0.2	12		0.75	0.2	10		0.75	0.2	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	100	7,600		0.16	U	0.75	0.16	0.16	U	0.75	0.16	0.16	U	0.75	0.16	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	34	--		0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	110		0.18	U	0.5	0.18	0.18	U	0.5	0.18	0.18	U	0.5	0.18	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	2,000	3,600		0.16	U	2.5	0.16	0.16	U	2.5	0.16	0.16	U	2.5	0.16	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	2	53		0.07	U	1	0.07	0.07	U	1	0.07	0.07	U	1	0.07	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, total	10,000	12,000		110		1	0.33	130		1	0.33	120		1	0.33	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds - SIM																											
1,1,2,2-Tetrachloroethane	4.3	820		0.006	U	0.05	0.006	0.006	U	0.05	0.006	0.006	U	0.05	0.006	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	27	700,000		1.1	U	3	1.1	1.1	U	3	1.1	1.1	U	3	1.1	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics																											
Chromium, Dissolved	100	--		-	-	-	-	-	-	-	-	923.5		2	0.178	646.8		1	0.178	642.8		100	17.8	463.2		1	0.178
Lead, dissolved	5	--		21.08		1	0.343	19.19		1	0.343	15.33		1	0.343	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	44200		40	7.12	2917		100	17.8	7099		10	1.78
Chromium, Hexavalent, Dissolved	100	--		-	-	-	-	-	-	-	-	-	-	-	-	1960		500	150	555		20	6	301		10	3
Chromium, Hexavalent, Total	100	--		-	-	-	-	-	-	-	-	-	-	-	-	1140		1000	300	598		20	6	322		10	3

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Notes:
1. Concentrations are reported in micrograms per liter.
2. Shaded results indicate detected concentrations in exceedance of the Groundwater MSCs.
3. There were no exceedances of the Pennsylvania Non-Residential Vapor Intrusion screening values for detected values.

Acronyms and Abbreviations:
- = data not available
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
Conc = concentration
MDL = method detection limit
MSC = Medium Specific Concentration
Q = qualifier
RL = reporting limit
SIM = selected ion monitoring

Laboratory Qualifiers:
J = The compound was detected; however, the concentration is below the laboratory method detection limit. so this concentration is estimated.
U = The compound was undetected at the listed laboratory method detection limit.

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-003 L2158499-03 10/25/2021 WATER				MW-004 L2158499-04 10/25/2021 WATER			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL
Semivolatile Organics by GC/MS										
1,2,4,5-Tetrachlorobenzene	29		0.44	U	1.7	0.44	0.44	U	1.7	0.44
2,3,4,6-Tetrachlorophenol	2,900		0.84	U	5	0.84	0.84	U	5	0.84
2,4,5-Trichlorophenol	9,700		0.77	U	5	0.77	0.77	U	5	0.77
2,4,6-Trichlorophenol	97		0.61	U	5	0.61	0.61	U	5	0.61
2,4-Dichlorophenol	20		0.41	U	5	0.41	0.41	U	5	0.41
2,4-Dimethylphenol	1,900		1.8	U	5	1.8	1.8	U	5	1.8
2,4-Dinitrophenol	190		6.6	U	20	6.6	6.6	U	20	6.6
2,4-Dinitrotoluene	9		1.2	U	5	1.2	1.2	U	5	1.2
2,6-Dinitrotoluene	1.8		0.93	U	5	0.93	0.93	U	5	0.93
2-Chloronaphthalene	7,800		0.44	U	2	0.44	0.44	U	2	0.44
2-Chlorophenol	40		0.48	U	2	0.48	0.48	U	2	0.48
2-Methylnaphthalene	26		0.45	U	2	0.45	0.45	U	2	0.45
2-Methylphenol	4,900		0.49	U	5	0.49	0.49	U	5	0.49
2-Nitroaniline	0.4		***0.5***	U	5	0.5	***0.5***	U	5	0.5
2-Nitrophenol	780		0.85	U	5	0.85	0.85	U	5	0.85
3,3'-Dichlorobenzidine	6		1.6	U	5	1.6	1.6	U	5	1.6
3-Methylphenol/4-Methylphenol	490		0.48	U	5	0.48	0.48	U	5	0.48
3-Nitroaniline	--		0.81	U	5	0.81	0.81	U	5	0.81
4,6-Dinitro-o-cresol	--		1.8	U	10	1.8	1.8	U	10	1.8
4-Bromophenyl phenyl ether	--		0.38	U	2	0.38	0.38	U	2	0.38
4-Chloroaniline	14		1.1	U	3.7	1.1	1.1	U	3.7	1.1
4-Chlorophenyl phenyl ether	--		0.49	U	2	0.49	0.49	U	2	0.49
4-Nitroaniline	140		0.8	U	5	0.8	0.8	U	5	0.8
4-Nitrophenol	60		0.67	U	10	0.67	0.67	U	10	0.67
Acenaphthene	3,800		0.53	U	2	0.53	0.53	U	2	0.53
Acenaphthylene	5,800		0.46	U	2	0.46	0.46	U	2	0.46
Acetophenone	9,700		0.53	U	5	0.53	0.53	U	5	0.53
Anthracene	66		0.33	U	2	0.33	0.33	U	2	0.33
Atrazine	3		0.76	U	3	0.76	0.76	U	3	0.76

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-003 L2158499-03 10/25/2021 WATER				MW-004 L2158499-04 10/25/2021 WATER			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL
Benzaldehyde	--		0.53	U	5	0.53	0.53	U	5	0.53
Biphenyl	3.5		0.46	U	2	0.46	0.46	U	2	0.46
Bis(2-chloroethoxy)methane	290		0.5	U	5	0.5	0.5	U	5	0.5
Bis(2-chloroisopropyl)ether	300		0.53	U	2	0.53	0.53	U	2	0.53
Butyl benzyl phthalate	1,400		1.2	U	5	1.2	1.2	U	5	1.2
Caprolactam	--		3.3	U	10	3.3	3.3	U	10	3.3
Carbazole	140		0.49	U	2	0.49	0.49	U	2	0.49
Chrysene	1.9		0.34	U	2	0.34	0.34	U	2	0.34
Di-n-butylphthalate	9,700		0.39	U	5	0.39	0.39	U	5	0.39
Di-n-octylphthalate	970		1.3	U	5	1.3	1.3	U	5	1.3
Dibenzofuran	97		0.5	U	2	0.5	0.5	U	2	0.5
Diethyl phthalate	78,000		0.38	U	5	0.38	0.38	U	5	0.38
Dimethyl phthalate	--		1.8	U	5	1.8	1.8	U	5	1.8
Fluoranthene	260		0.26	U	2	0.26	0.26	U	2	0.26
Fluorene	1,900		0.41	U	2	0.41	0.41	U	2	0.41
Hexachlorobutadiene	35		0.66	U	2	0.66	0.66	U	2	0.66
Hexachlorocyclopentadiene	50		0.69	U	20	0.69	0.69	U	20	0.69
Isophorone	100		1.2	U	5	1.2	1.2	U	5	1.2
Naphthalene	100		0.46	U	2	0.46	0.46	U	2	0.46
NDPA/DPA	96		0.42	U	2	0.42	0.42	U	2	0.42
Nitrobenzene	6.3		0.77	U	1.4	0.77	0.77	U	1.4	0.77
p-Chloro-m-cresol	9,700		0.35	U	2	0.35	0.35	U	2	0.35
Phenanthrene	1,100		0.33	U	2	0.33	0.33	U	2	0.33
Phenol	2,000		0.57	U	5	0.57	0.57	U	5	0.57
Pyrene	130		0.28	U	2	0.28	0.28	U	2	0.28
Semivolatile Organic Compounds - SIM										
Benzo(a)anthracene	3.9		0.02	U	0.05	0.02	0.02	U	0.05	0.02
Benzo(a)pyrene	0.2		0.02	U	0.1	0.02	0.02	U	0.1	0.02
Benzo(b)fluoranthene	1.2		0.01	U	0.05	0.01	0.01	U	0.05	0.01
Benzo(ghi)perylene	0.26		0.01	U	0.1	0.01	0.01	U	0.1	0.01

Table 12
Summary of Monitoring Well Sampling Results
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs	Sample ID: / Laboratory ID: / Collection Date: / Sample Matrix:	MW-003 L2158499-03 10/25/2021 WATER				MW-004 L2158499-04 10/25/2021 WATER			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL
Benzo(k)fluoranthene	0.55		0.01	U	0.1	0.01	0.01	U	0.1	0.01
Bis(2-chloroethyl)ether	0.76		0.02	U	0.1	0.02	0.02	U	0.1	0.02
Bis(2-ethylhexyl)phthalate	6		0.51	U	1	0.51	0.51	U	1	0.51
Dibenzo(a,h)anthracene	0.6		0.01	U	0.05	0.01	0.01	U	0.05	0.01
Hexachlorobenzene	1		0.01	U	0.02	0.01	0.01	U	0.02	0.01
Hexachloroethane	1		0.06	U	0.2	0.06	0.06	U	0.2	0.06
Indeno(1,2,3-cd)pyrene	2.3		0.01	U	0.1	0.01	0.01	U	0.1	0.01
n-Nitrosodi-n-propylamine	--		0.01	U	0.1	0.01	0.01	U	0.1	0.01
Pentachlorophenol	1		0.01	U	0.1	0.01	0.01	U	0.1	0.01

Notes:
1. Concentrations are reported in micrograms per liter.
2. There were no detected exceedances of the Groundwater MSCs.
3. ***Bold and italicized*** values indicate a non-detected result with the MDL greater than the MSC.

Acronyms and Abbreviations:
- = Data not available.
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
Conc = concentration
GC/MS = gas chromatography/mass spectrometry
ID = identification
MDL = method detection limit
MSC = Medium Specific Concentration
NDPA/DPA = n-nitrosodipropylamine/diphenylamine
NS = no Pennsylvania Department of Environmental Protection criteria established for this parameter
Q = qualifier
RL = reporting limit
SIM = selected ion monitoring

Laboratory Qualifiers:
U = the compound was undetected at the listed laboratory method detection limit

Table 13
Summary of Soil Gas Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Sub-Slab Soil Gas Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Depth: / Sample Matrix: / Units	SG-1 L2227668-01 5/25/2022 2.5FT SOIL_VAPOR				SG-2 L2227668-02 5/25/2022 2.5FT SOIL_VAPOR				SG-3 L2227668-03 5/25/2022 2.5FT SOIL_VAPOR				SG-4 L2227668-04 5/25/2022 2.5FT SOIL_VAPOR				SG-5 L2227668-05 5/25/2022 9FT SOIL_VAPOR				SG-6 L2227668-06 5/25/2022 9FT SOIL_VAPOR				SG-7 L2227668-07 5/25/2022 9FT SOIL_VAPOR			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organic Compounds in Air																														
1,1,1-Trichloroethane	2,800,000	µg/m³	0.273	U	1.09	0.273	0.273	U	1.09	0.273	0.273	U	1.09	0.273	0.273	U	1.09	0.273	3420	U	13600	3420	24.9	U	99.3	24.9	171	U	682	171
1,1,2,2-Tetrachloroethane	270	µg/m³	0.422	U	1.37	0.422	0.422	U	1.37	0.422	0.422	U	1.37	0.422	0.422	U	1.37	0.422	***5270***	U	17200	5270	38.5	U	125	38.5	264	U	858	264
1,1,2-Trichloroethane	110	µg/m³	0.366	U	1.09	0.366	0.366	U	1.09	0.366	0.366	U	1.09	0.366	0.366	U	1.09	0.366	***4570***	U	13600	4570	33.3	U	99.3	33.3	***229***	U	682	229
1,1-Dichloroethane	9,800	µg/m³	0.254	U	0.809	0.254	0.254	U	0.809	0.254	0.254	U	0.809	0.254	0.254	U	0.809	0.254	3180	U	10100	3180	23.2	U	73.7	23.2	159	U	506	159
1,1-Dichloroethene	110,000	µg/m³	0.255	U	0.793	0.255	0.255	U	0.793	0.255	0.255	U	0.793	0.255	0.255	U	0.793	0.255	3190	U	9910	3190	23.3	U	72.2	23.3	159	U	496	159
1,2,4-Trichlorobenzene	1,100	µg/m³	0.5	U	1.48	0.5	0.5	U	1.48	0.5	0.5	U	1.48	0.5	0.5	U	1.48	0.5	***6250***	U	18600	6250	45.7	U	135	45.7	313	U	928	313
1,2,4-Trimethylbenzene	34,000	µg/m³	17.7		0.983	0.181	5.56		0.983	0.181	7.57		0.983	0.181	0.683	J	0.983	0.181	2260	U	12300	2260	16.5	U	89.5	16.5	113	U	615	113
1,2-Dibromoethane	26	µg/m³	0.431	U	1.54	0.431	0.431	U	1.54	0.431	0.431	U	1.54	0.431	0.431	U	1.54	0.431	***5390***	U	19200	5390	***39.3***	U	140	39.3	***270***	U	961	270
1,2-Dichlorobenzene	110,000	µg/m³	0.378	U	1.2	0.378	0.378	U	1.2	0.378	0.378	U	1.2	0.378	0.378	U	1.2	0.378	4720	U	15000	4720	34.5	U	109	34.5	236	U	752	236
1,2-Dichloroethane	610	µg/m³	1.59		0.809	0.244	0.244	U	0.809	0.244	0.684	J	0.809	0.244	0.244	U	0.809	0.244	***3040***	U	10100	3040	22.2	U	73.7	22.2	152	U	506	152
1,2-Dichloropropane	4.3	µg/m³	0.282	U	0.924	0.282	0.282	U	0.924	0.282	0.282	U	0.924	0.282	0.282	U	0.924	0.282	***3520***	U	11600	3520	***25.7***	U	84.1	25.7	***176***	U	578	176
1,3,5-Trimethylbenzene	34,000	µg/m³	7.37		0.983	0.332	1.96		0.983	0.332	2.08		0.983	0.332	0.332	U	0.983	0.332	4150	U	12300	4150	30.3	U	89.5	30.3	207	U	615	207
1,3-Butadiene	520	µg/m³	1.24		0.442	0.148	0.934		0.442	0.148	0.148	U	0.442	0.148	0.212	J	0.442	0.148	***1850***	U	5530	1850	13.5	U	40.3	13.5	92.7	U	277	92.7
1,3-Dichloropropane	--	µg/m³	0.49	U	0.924	0.49	0.49	U	0.924	0.49	0.49	U	0.924	0.49	0.49	U	0.924	0.49	6100	U	11600	6100	44.7	U	84.1	44.7	306	U	578	306
1,4-Dichlorobenzene	1,400	µg/m³	0.382	U	1.2	0.382	0.382	U	1.2	0.382	0.382	U	1.2	0.382	0.382	U	1.2	0.382	***4780***	U	15000	4780	34.9	U	109	34.9	239	U	752	239
1,4-Dioxane	3,100	µg/m³	0.29	U	0.721	0.29	0.29	U	0.721	0.29	0.29	U	0.721	0.29	0.29	U	0.721	0.29	***3640***	U	9010	3640	26.5	U	65.6	26.5	181	U	450	181
3-Chloropropene	560	µg/m³	0.183	U	0.626	0.183	0.183	U	0.626	0.183	0.183	U	0.626	0.183	0.183	U	0.626	0.183	***2290***	U	7830	2290	16.7	U	57	16.7	115	U	391	115
4-Methyl-2-pentanone	1,700,000	µg/m³	6.88		2.05	0.173	2.25		2.05	0.173	0.291	J	2.05	0.173	0.173	U	2.05	0.173	2160	U	25600	2160	341		187	15.7	108	U	1280	108
Acetone	17,000,000	µg/m³	10.9		2.38	1.64	30.6		2.38	1.64	6.65		2.38	1.64	6.44		2.38	1.64	20500	U	29700	20500	149	U	217	149	1020	U	1480	1020
Acrolein	11	µg/m³	0.848	J	1.15	0.137	0.137	U	1.15	0.137	0.919	J	1.15	0.137	0.53	J	1.15	0.137	***1710***	U	14300	1710	***12.5***	U	105	12.5	***85.3***	U	715	85.3
Acrylonitrile	230	µg/m³	0.12	U	1.09	0.12	0.12	U	1.09	0.12	0.12	U	1.09	0.12	0.12	U	1.09	0.12	***1510***	U	13600	1510	11	U	99	11	75.3	U	677	75.3
Benzene	2,000/200*	µg/m³	25.2		0.639	0.156	2.97		0.639	0.156	9.74		0.639	0.156	3.39		0.639	0.156	4340	J	7990	1950	14.2	U	58.1	14.2	97.1	U	399	97.1
Benzyl chloride	320	µg/m³	0.25	U	1.04	0.25	0.25	U	1.04	0.25	0.25	U	1.04	0.25	0.25	U	1.04	0.25	***3120***	U	12900	3120	22.8	U	94.2	22.8	156	U	647	156
Bromodichloromethane	430	µg/m³	0.338	U	1.34	0.338	0.338	U	1.34	0.338	0.338	U	1.34	0.338	0.338	U	1.34	0.338	***4220***	U	16700	4220	30.8	U	122	30.8	211	U	837	211
Bromoform	14,000	µg/m³	0.663	U	2.07	0.663	0.663	U	2.07	0.663	0.663	U	2.07	0.663	0.663	U	2.07	0.663	8280	U	25800	8280	60.5	U	188	60.5	415	U	1290	415
Bromomethane	2,800	µg/m³	0.3	U	0.777	0.3	0.3	U	0.777	0.3	0.3	U	0.777	0.3	0.3	U	0.777	0.3	***3750***	U	9710	3750	27.4	U	70.7	27.4	188	U	485	188
Carbon disulfide	390,000	µg/m³	1.13		0.623	0.174	8.28		0.623	0.174	1.24		0.623	0.174	1.08		0.623	0.174	2180	U	7790	2180	15.9	U	56.7	15.9	109	U	389	109
Carbon tetrachloride	2,600	µg/m³	0.321	J	1.26	0.314	0.314	U	1.26	0.314	0.44	J	1.26	0.314	0.428	J	1.26	0.314	***3930***	U	15700	3930	28.6	U	114	28.6	196	U	786	196
Chlorobenzene	28,000	µg/m³	0.287	U	0.921	0.287	0.287	U	0.921	0.287	0.287	U	0.921	0.287	0.287	U	0.921	0.287	3590	U	11500	3590	26.2	U	83.8	26.2	180	U	576	180
Chloroethane	5,600,000	µg/m³	0.212	U	0.528	0.212	0.212	U	0.528	0.212	0.212	U	0.528	0.212	0.212	U	0.528	0.212	2670	U	6600	2670	19.4	U	48	19.4	133	U	330	133
Chloroform	680	µg/m³	4.98		0.977	0.309	0.381	J	0.977	0.309	0.309	U	0.977	0.309	0.309	U	0.977	0.309	***3860***	U	12200	3860	28.2	U	88.9	28.2	193	U	610	193
Chloromethane	8,700	µg/m³	1.06		0.413	0.142	1.06		0.413	0.142	1.15		0.413	0.142	1.23		0.413	0.142	1780	U	5160	1780	13	U	37.6	13	89	U	258	89
Cyclohexane	3,400,000	µg/m³	4.41		0.688	0.127	0.654	J	0.688	0.127	0.819		0.688	0.127	1.38		0.688	0.127	1220000		8610	1580	236		62.6	11.6	26100		430	79.2
Dibromochloromethane	580	µg/m³	0.523	U	1.7	0.523	0.523	U	1.7	0.523	0.523	U	1.7	0.523	0.523	U	1.7	0.523	***6540***	U	21300	6540	47.7	U	155	47.7	327	U	1060	327
Dichlorodifluoromethane	56,000	µg/m³	2.58		0.989	0.288	2.52		0.989	0.288	2.69		0.989	0.288	2.64		0.989	0.288	3600	U	12400	3600	26.3	U	90	26.3	180	U	618	180
Ethylbenzene	6,300	µg/m³	18.2		0.869	0.188	2.28		0.869	0.188	5.56		0.869	0.188	0.482	J	0.869	0.188	2350	U	10900	2350	17.1	U	79.1	17.1	117	U	543	117
Freon-113	2,800,000	µg/m³	0.503	U	1.53	0.503	0.503	U	1.53	0.503	0.503	U	1.53	0.503	0.544	J	1.53	0.503	6280	U	19200	6280	45.8	U	139	45.8	314	U	958	314
Isopropanol	110,000	µg/m³	2.58		1.23	1.17	1.17	U	1.23	1.17	1.17	U	1.23	1.17	1.17	U	1.23	1.17	14700	U	15400	14700	107	U	112	107	735	U	767	735
Isopropylbenzene	220,000	µg/m³	1.74		0.983	0.241	0.983		0.983	0.241	0.403	J	0.983	0.241	0.241	U	0.983	0.241	3020	U	12300	3020	22	U	89.5	22	151	U	615	151
Methyl methacrylate	390,000	µg/m³	0.285	U	2.05	0.285	0.285	U	2.05	0.285	0.285	U	2.05	0.285	0.285	U	2.05	0.285	3570	U	25600	3570	26	U	187	26	179	U	1280	179
Methyl tert-butyl ether	61,000	µg/m³	0.189	U	0.721	0.189	0.189	U	0.721	0.189	0.189	U	0.721	0.189	0.189	U	0.721	0.189	2370	U	9010	2370	17.3	U	65.6	17.3	118	U	451	118
Methylene chloride	340,000	µg/m³	0.691	J	1.74	0.466	0.886	J	1.74	0.466	7.09		1.74	0.466	0.82	J	1.74	0.466	5840	U	21700	5840	42.4	U	158	42.4	291	U	1080	291

Table 13
Summary of Soil Gas Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte	Pennsylvania Non-Residential Sub-Slab Soil Gas Statewide Health Standard Vapor Intrusion Screening Value	Sample ID: / Laboratory ID: / Collection Date: / Sample Depth: / Sample Matrix: / Units	SG-1 L2227668-01 5/25/2022 2.5FT SOIL_VAPOR				SG-2 L2227668-02 5/25/2022 2.5FT SOIL_VAPOR				SG-3 L2227668-03 5/25/2022 2.5FT SOIL_VAPOR				SG-4 L2227668-04 5/25/2022 2.5FT SOIL_VAPOR				SG-5 L2227668-05 5/25/2022 9FT SOIL_VAPOR				SG-6 L2227668-06 5/25/2022 9FT SOIL_VAPOR				SG-7 L2227668-07 5/25/2022 9FT SOIL_VAPOR			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
n-Hexane	390,000	µg/m^3	33.4		0.705	0.128	2.11		0.705	0.128	9.3		0.705	0.128	3.74		0.705	0.128	103000		8810	1600	37	J	64.1	11.7	983		441	80.4
Naphthalene	460/46*	µg/m^3	2.03		1.05	0.464	0.975	J	1.05	0.464	8.34		1.05	0.464	0.464	U	1.05	0.464	***5820***	U	13100	5820	42.3	U	95.4	42.3	***290***	U	655	290
o-Xylene	--	µg/m^3	22.3		0.869	0.197	5.04		0.869	0.197	5.39		0.869	0.197	0.764	J	0.869	0.197	2460	U	10900	2460	17.9	U	79.1	17.9	123	U	543	123
p/m-Xylene	--	µg/m^3	84.3		1.74	0.395	9.08		1.74	0.395	22.5		1.74	0.395	1.78		1.74	0.395	4950	U	21700	4950	55.2	J	159	36.1	247	U	1090	247
Styrene	560,000	µg/m^3	0.307	J	0.852	0.185	0.447	J	0.852	0.185	0.185	U	0.852	0.185	0.185	U	0.852	0.185	2310	U	10600	2310	16.9	U	77.5	16.9	115	U	532	115
Tetrachloroethene	22,000	µg/m^3	6.01		1.36	0.444	0.651	J	1.36	0.444	0.454	J	1.36	0.444	0.444	U	1.36	0.444	5550	U	17000	5550	40.6	U	123	40.6	277	U	848	277
Tetrahydrofuran	8,100	µg/m^3	0.681	J	1.47	0.168	0.72	J	1.47	0.168	0.224	J	1.47	0.168	0.168	U	1.47	0.168	2090	U	18400	2090	15.3	U	134	15.3	105	U	920	105
Toluene	2,800,000	µg/m^3	115		0.754	0.196	4.86		0.754	0.196	25.8		0.754	0.196	2.63		0.754	0.196	2590	J	9420	2450	120		68.6	17.9	170	J	471	122
trans-1,2-Dichloroethene	34,000	µg/m^3	0.255	U	0.793	0.255	0.255	U	0.793	0.255	0.255	U	0.793	0.255	0.255	U	0.793	0.255	3190	U	9910	3190	23.3	U	72.2	23.3	159	U	496	159
Trichloroethene	1,100	µg/m^3	0.271	U	1.07	0.271	0.271	U	1.07	0.271	0.271	U	1.07	0.271	0.271	U	1.07	0.271	***3390***	U	13400	3390	24.8	U	97.8	24.8	170	U	672	170
Trichlorofluoromethane	390,000	µg/m^3	1.21		1.12	0.386	1.14		1.12	0.386	1.2		1.12	0.386	1.2		1.12	0.386	4820	U	14000	4820	35.2	U	102	35.2	241	U	702	241
Vinyl bromide	490	µg/m^3	0.313	U	0.874	0.313	0.313	U	0.874	0.313	0.313	U	0.874	0.313	0.313	U	0.874	0.313	***3920***	U	10900	3920	28.6	U	79.6	28.6	196	U	547	196
Vinyl chloride	1,800	µg/m^3	0.16	U	0.511	0.16	0.16	U	0.511	0.16	0.16	U	0.511	0.16	0.16	U	0.511	0.16	***2000***	U	6390	2000	14.6	U	46.5	14.6	100	U	320	100
Xylenes, total	56,000	µg/m^3	107		0.869	0.197	14.1		0.869	0.197	27.9		0.869	0.197	2.55	J	0.869	0.197	2460	U	10900	2460	55.2	J	79.1	17.9	123	U	543	123

Notes:
1. Shaded values indicate the detected concentration exceeds the Pennsylvania Non-Residential Sub-Slab Soil Gas VI screening value.
2. Bold and italicized values indicate a non-detected result with the MDL greater than the screening value.

Acronyms and Abbreviations:
* = Site-Specific Non-Residential Vapor Intrusion screening value (applies to benzene and naphthalene).
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
µg/m^3 = microgram per cubic meter
Conc = concentration
ID = identification
MDL = method detection limit
NS = no Pennsylvania Department of Environmental Protection criteria established for this parameter
VI = vapor intrusion
RL = reporting limit

Laboratory Qualifiers:
J = The compound was detected; however, the concentration is below the laboratory method detection limit. so this concentration is estimated.
U = Concentraton was not detected at the reported detection limit for the sample.

Table 14a
Summary of Soil Sampling Results - Chromium Species, Onsite
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (2 to 15 feet bgs)	1044-P4 (6.5-7)				2040-P2 (4.5-5)				PIPE 22 (13-13.5)				1043-P4 (7.5-8)				1043-P5 (7.5-8)				2040-P2 (9.5-10)				SB-304 (2.5-3)				SB-305 (2.5-3)			
Lab ID:			L2446836-03				L2446836-02				L2446836-01				L2446806-02				L2446806-03				L2446806-01				L2446806-04				L2446806-05			
Collection Date:			10/22/2021				10/22/2021				10/22/2021				3/17/2023				3/17/2023				3/17/2023				3/17/2023				3/17/2023			
Sample Depth:			6.5-7				4.5-5				13-13.5				7.5-8				7.5-8				9.5-10				2.5-3				2.5-3			
Sample Matrix:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
Analyte:	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Inorganics																																		
Chromium, Total	190000	190000	329		0.578	0.055	0.04	U	0.414	0.04	82.4		0.495	0.048	200000		495	48	63500		552	53	41100		2750	264	19400		494	47	157000		477	46
Chromium, Hexavalent	180	190	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium, SPLP Hexavalent (mg/L)	0.1 mg/L	0.1 mg/L																																
General Chemistry																																		
Solids, Total	--	--	69.2		0.1	NA	91.6		0.1	NA	78		0.1	NA	79.7		0.1	NA	70.6		0.1	NA	68.7		0.1	NA	79		0.1	NA	82.6		0.1	NA

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (2 to 15 feet bgs)	SB-305 (7.5-8)				SB-306 (2.5-3)				SB-307 (5.5-6)				SB-309 (4.5-5)				SB-315 (2.5-3)				S-206				S-209				S-216			
Lab ID:			L2446806-06				L2446806-07				L2446806-08				L2446806-09				L2446806-10				L2443629-01				L2443629-02				L2443629-03			
Collection Date:			3/17/2023				3/17/2023				3/17/2023				3/17/2023				3/17/2023				8/2/2024				8/2/2024				8/2/2024			
Sample Depth:			7.5-8				2.5-3				5.5-6				4.5-5				2.5-3				0-0.5				0-0.5				0-0.5			
Sample Matrix:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
Analyte:	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Inorganics																																		
Chromium, Total	190000	190000	16600		455	44	7960		508	49	40800		443	43	51200		433	42	16400		504	48	793		1.72	0.165	1010		0.915	0.088	2550		1.71	0.164
Chromium, Hexavalent	180	190	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	162		87.8	17.6	259		96.6	19.3	1660		43.6	8.71
Chromium, SPLP Hexavalent (mg/L)	0.1 mg/L	0.1 mg/L																					-		-	-	-		-	-	-		-	-
General Chemistry																																		
Solids, Total	--	--	86.6		0.1	NA	76.1		0.1	NA	87.2		0.1	NA	89.1		0.1	NA	77.3		0.1	NA	91.1		0.1	NA	82.8		0.1	NA	91.8		0.1	NA

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (2 to 15 feet bgs)	S-502				S-503				S-504				S-601				S-602				S-603				S-604				SB-206 (3-3.5)			
Lab ID:			L2443629-04				L2443629-05				L2443629-06				L2443629-07				L2443629-08				L2443629-09				L2443629-10				L2429996-01			
Collection Date:			8/2/2024				8/2/2024				8/2/2024				8/2/2024				8/2/2024				8/2/2024				8/2/2024				5/30/2024			
Sample Depth:			0-0.5				0-0.5				0-0.5				0-0.5				0-0.5				0-0.5				0-0.5				3-3.5			
Sample Matrix:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
Analyte:	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Inorganics																																		
Chromium, Total	190000	190000	883		0.805	0.077	134		1.66	0.16	226		0.874	0.084	61		0.863	0.083	5210		5.36	0.514	334		0.791	0.076	1100		0.871	0.084	27100		6.2	0.595
Chromium, Hexavalent	180	190	279		82.5	16.5	2.88		0.859	0.172	4.14		0.895	0.179	0.739	J	0.882	0.176	3.98		1.13	0.227	13.6		0.812	0.162	5710		443	88.6	27900		1310	262
Chromium, SPLP Hexavalent (mg/L)	0.1 mg/L	0.1 mg/L	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	58.8		5	1.5
General Chemistry																																		
Solids, Total	--	--	97		0.1	NA	93.1		0.1	NA	89.4		0.1	NA	90.7		0.1	NA	70.5		0.1	NA	98.5		0.1	NA	90.3		0.1	NA	61		0.1	NA

Table 14a
Summary of Soil Sampling Results - Chromium Species, Onsite
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (2 to 15 feet bgs)	DUP-1 (SB-206)				SB-209 (4.5-5)				SB-216 (4.5-5)				SB-501 (4.5-5)				SB-502 (4.5-5)				SB-503 (6-6.5)				SB-504 (8-8.5)				SB-505_9.5-10			
Lab ID:			L2429996-08				L2429996-02				L2429996-03				L2429996-04				L2429996-05				L2429996-06				L2429996-07				L2432189-01			
Collection Date:			5/30/2024				5/30/2024				5/30/2024				5/30/2024				5/30/2024				5/30/2024				5/30/2024				6/7/2024			
Sample Depth:			3-3.5				4.5-5				4.5-5				4.5-5				4.5-5				6-6.5				8-8.5				9.5-10			
Sample Matrix:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
Analyte:	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Inorganics																																		
Chromium, Total	190000	190000	27300		6.54	0.628	22700		7.5	0.72	23100		7.03	0.675	17500		6.9	0.662	28100		6.89	0.662	230		1.05	0.101	987		1.02	0.098	193		0.94	0.09
Chromium, Hexavalent	180	190	9060		1320	264	11300		1540	309	15000		1440	288	5010		1410	283	12300		1380	277	0.216	U	1.08	0.216	0.213	U	1.06	0.213	0.198	U	0.988	0.198
Chromium, SPLP Hexavalent (mg/L)	0.1 mg/L	0.1 mg/L	55.9		5	1.5	14.4		2	0.6	38.3		5	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																																		
Solids, Total	--	--	60.6		0.1	NA	51.8		0.1	NA	55.6		0.1	NA	56.6		0.1	NA	57.8		0.1	NA	74		0.1	NA	75.1		0.1	NA	81		0.1	NA

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (2 to 15 feet bgs)	SB-506_9.5-10				SB-507_14.5-15				SB-508_14.5-15				SB-509_9.5-10				SB-510_8.5-9				SB-511_11-11.5				SB-511_9.5-10				SB-512_9.5-10			
Lab ID:			L2432189-02				L2432189-03				L2432189-04				L2432189-05				L2432189-12				L2432189-07				L2432189-06				L2432189-08			
Collection Date:			6/7/2024				6/7/2024				6/7/2024				6/7/2024				6/7/2024				6/7/2024				6/7/2024				6/7/2024			
Sample Depth:			9.5-10				14.5-15				14.5-15				9.5-10				8.5-9				11-11.5				9.5-10				9.5-10			
Sample Matrix:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
Analyte:	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Inorganics																																		
Chromium, Total	190000	190000	11.9		1.13	0.109	25.4		0.83	0.08	44.7		1.02	0.098	24.9		0.974	0.094	28.6		0.84	0.081	20300		12.8	1.23	50.8		0.899	0.086	24.3		0.922	0.089
Chromium, Hexavalent	180	190	0.24	U	1.2	0.24	0.216	J	0.863	0.172	0.212	U	1.06	0.212	0.2	U	1	0.2	0.175	U	0.875	0.175	8130		1320	264	3.24		0.94	0.188	0.188	U	0.938	0.188
Chromium, SPLP Hexavalent (mg/L)	0.1 mg/L	0.1 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																																		
Solids, Total	--	--	66.6		0.1	NA	92.7		0.1	NA	75.4		0.1	NA	79.9		0.1	NA	91.4		0.1	NA	60.7		0.1	NA	85.1		0.1	NA	85.3		0.1	NA

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (2 to 15 feet bgs)	DUP-SOIL (SB-512 9.5-10)				SB-513_9.5-10				SB-514_9.5-10				SB-604 (7.5-8)				SB-701 (0.0-0.5)				SB-701 (6-6.5)				SB-702 (0.0-0.5)				SB-702 (8.0-8.5)			
Lab ID:			L2432189-11				L2432189-09				L2432189-10				L2500978-18				L2500978-01				L2500978-02				L2500978-03				L2500978-04			
Collection Date:			6/7/2024				6/7/2024				6/7/2024				1/8/2025				1/8/2025				1/8/2025				1/8/2025				1/8/2025			
Sample Depth:							9.5-10				9.5-10				7.5-8				0-0.5				6-6.5				0-0.5				8-8.5			
Sample Matrix:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
Analyte:	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Inorganics																																		
Chromium, Total	190000	190000	16.4		0.969	0.093	150		1.47	0.141	9.02		1.02	0.098	1050		1.06	0.102	138		0.972	0.093	2040		1.04	0.1	65.3		0.91	0.087	248		0.869	0.083
Chromium, Hexavalent	180	190	0.2	U	1	0.2	0.304	U	1.52	0.304	0.271	J	1.08	0.216	0.218	U	1.09	0.218	1.84		1.02	0.204	158		5.4	1.08	1.14		0.967	0.193	0.885	J	0.92	0.184
Chromium, SPLP Hexavalent (mg/L)	0.1 mg/L	0.1 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																																		
Solids, Total	--	--	79.9		0.1	NA	52.6		0.1	NA	73.9		0.1	NA	73.4		0.1	NA	78.4		0.1	NA	74.1		0.1	NA	82.7		0.1	NA	87		0.1	NA

Table 14a
Summary of Soil Sampling Results - Chromium Species, Onsite
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (2 to 15 feet bgs)	SB-703 (0.0-0.5)				SB-703 (5.5-6)				SB-704 (0.0-0.5)				SB-704 (7.0-7.5)				SB-705 (0.0-0.5)				SB-705 (3.5-4.0)				SB-705 (7-7.5)				SB-706 (0.0-0.5)			
Lab ID:			L2500978-05				L2500978-06				L2500978-07				L2500978-08				L2500978-09				L2500978-10				L2500978-11				L2500978-12			
Collection Date:			1/8/2025				1/8/2025				1/8/2025				1/8/2025				1/8/2025				1/8/2025				1/8/2025				1/8/2025			
Sample Depth:			0-0.5				5.5-6				0-0.5				7-7.5				0-0.5				3.5-4				7-7.5				0-0.5			
Sample Matrix:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
Analyte:	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Inorganics																																		
Chromium, Total	190000	190000	552		1.32	0.126	3860		2.58	0.248	626		0.952	0.091	34.5		0.974	0.094	12900		6.78	0.651	17600		14.3	1.37	577		4.15	0.398	745		1.16	0.112
Chromium, Hexavalent	180	190	690		34.7	6.93	4090		133	26.5	32.9		0.988	0.198	0.563	J	0.979	0.196	1730		68.8	13.8	5430		149	29.7	157		5.36	1.07	0.316	J	1.2	0.241
Chromium, SPLP Hexavalent (mg/L)	0.1 mg/L	0.1 mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																																		
Solids, Total	--	--	57.7		0.1	NA	60.3		0.1	NA	81		0.1	NA	81.7		0.1	NA	58.1		0.1	NA	53.8		0.1	NA	74.6		0.1	NA	66.5		0.1	NA

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (2 to 15 feet bgs)	UP-1 (0.0-0.5) (SB-706 0-0.5				SB-706 (7-7.5)				SB-707 (0.0-0.5)				SB-707 (7-7.5)				SB-708 (0.0-0.5)				SB-708 (6.5-7)			
Lab ID:			L2500978-19				L2500978-13				L2500978-14				L2500978-15				L2500978-16				L2500978-17			
Collection Date:			1/8/2025				1/8/2025				1/8/2025				1/8/2025				1/8/2025				1/8/2025			
Sample Depth:			0-0.5				7-7.5				0-0.5				7-7.5				0-0.5				6.5-7			
Sample Matrix:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
Analyte:	**(mg/kg)**	**(mg/kg)**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Inorganics																										
Chromium, Total	190000	190000	724		0.96	0.092	33.4		2.08	0.2	5500		4.56	0.438	592		0.98	0.094	506		0.928	0.089	11400		10.5	1.01
Chromium, Hexavalent	180	190	0.202	U	1.01	0.202	0.213	U	1.06	0.213	0.187	U	0.937	0.187	0.202	U	1.01	0.202	11.3		0.95	0.19	0.218	U	1.09	0.218
Chromium, SPLP Hexavalent (mg/L)	0.1 mg/L	0.1 mg/L																								
General Chemistry																										
Solids, Total	--	--	79.4		0.1	NA	75.2		0.1	NA	85.4		0.1	NA	79		0.1	NA	84.2		0.1	NA	73.2		0.1	NA

Notes:
1. Soil concentrations reported in milligrams per kilogram (mg/kg)
2. SPLP results are reported in milligrams per liter (mg/L). The groundwater MSC for chromium is 0.1 microgram per liter (mg/L).
3. Chromium was not historically considered a site-related constituent of concern. For samples collected in 2021 and 2023, previously unreported chromium results were requested to be pulled from the archived report and were tabulated to support the 2024-2025 investigation.
4. Shaded = detected concentration in exceedance of Representative Pennsylvania Soil MSC.

Acronyms and Abbreviations:
- = not analyzed
-- = no standard established
bgs = below ground surface
Conc = concentration
MDL = method detection limit
MSC = Medium Specific Concentration
Q = qualifier
RL = reporting limit
SHS = Statewide Health Standard
SPLP = synthetic precipitation leaching procedure

Laboratory Qualifier:
U - Compound was undetected at the listed laboratory method detection limit.

Table 14b
Summary of Soil Sampling Results, Bartram's Garden Mile Trail
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	DEP51-S1				DEP51-S2				DEP51-S3				DEP51-S3				DEP51-S3-240813				DUP-S 240813 (DEP51-S3-240813)				S-3	
Lab ID:		L2441149-01				L2441149-02				L2441149-03				L2444177-01				L2445674-01				L2445674-11				410-188472-10	
Collection Date:		7/22/2024				7/22/2024				7/22/2024				8/6/2024				8/13/2024				8/13/2024				9/16/2024	
Sample Depth:		0-0.5				0-0.5				0-0.5				0-0.5				0-0.5				0-0.5				0-0.5	
Sample Matrix:		SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				Soil	
Analyte:	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q
Volatile Organics by USEPA 5035																											
1,2-Dichlorobenzene	61	0.00017	U	0.0023	0.00017	0.00022	U	0.0031	0.00022	0.00034	U	0.0047	0.00034	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.5	0.0003	U	0.0012	0.0003	0.0004	U	0.0016	0.0004	0.00061	U	0.0024	0.00061	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	10	0.0002	U	0.0023	0.0002	0.00026	U	0.0031	0.00026	0.0004	U	0.0047	0.0004	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	400	0.0026	U	0.012	0.0026	0.0034	U	0.016	0.0034	0.0053	U	0.024	0.0053	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	8,800	0.012	U	0.029	0.012	0.016	U	0.039	0.016	0.024	U	0.059	0.024	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	0.5	0.00019	U	0.00058	0.00019	0.00026	U	0.00078	0.00026	0.00039	U	0.0012	0.00039	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	6,900	0.00063	U	0.012	0.00063	0.00085	U	0.016	0.00085	0.0013	U	0.024	0.0013	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	70	0.00016	U	0.0012	0.00016	0.00022	U	0.0016	0.00022	0.00033	U	0.0024	0.00033	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	2,500	0.00012	U	0.0012	0.00012	0.00017	U	0.0016	0.00017	0.00026	U	0.0024	0.00026	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	9,700	0.0011	U	0.0046	0.0011	0.0015	U	0.0062	0.0015	0.0022	U	0.0095	0.0022	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	--	0.0007	U	0.0046	0.0007	0.00094	U	0.0062	0.00094	0.0014	U	0.0095	0.0014	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether	2	0.00023	U	0.0023	0.00023	0.00031	U	0.0031	0.00031	0.00048	U	0.0047	0.00048	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	1,000	0.00034	U	0.0012	0.00034	0.00045	U	0.0016	0.00045	0.00069	U	0.0024	0.00069	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p/m-Xylene	1,000	0.00065	U	0.0023	0.00065	0.00087	U	0.0031	0.00087	0.0013	U	0.0047	0.0013	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	24	0.00023	U	0.0012	0.00023	0.0003	U	0.0016	0.0003	0.00046	U	0.0024	0.00046	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	100	0.00063	U	0.0012	0.00063	0.00084	U	0.0016	0.00084	0.0013	U	0.0024	0.0013	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	1,000	0.00034	U	0.0012	0.00034	0.00045	U	0.0016	0.00045	0.00069	U	0.0024	0.00069	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics																											
Lead, Total	1000	66.1		3.89	0.208	59.4		4.09	0.219	110		4.03	0.216					68.5		4.37	0.234	-	-	-	-	-	-
Chromium, Total	190000	332		0.778	0.075	834		0.818	0.079	1240		0.806	0.077	266		0.947	0.091	828		0.874	0.084	1040		1.07	0.103	5	
Chromium, Hexavalent	180	0.212	J	0.809	0.162	3.73		0.851	0.17	0.165	U	0.826	0.165	0.198	U	0.992	0.198	4.27		0.908	0.182	0.216	U	1.08	0.216	ND	ND

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	DEP51-S8				DEP51-S8A-240813				S-8A		DEP51-S9				DEP51-S10				DEP51-S10				DEP51-S10A-240813			
Lab ID:		L2444177-02				L2445674-04				410-188472-1		L2441149-09				L2441149-10				L2444177-03				L2445674-05			
Collection Date:		8/6/2024				8/13/2024				9/16/2024		7/22/2024				7/22/2024				8/6/2024				8/13/2024			
Sample Depth:		0-0.5				0-0.5				0-0.5		0-0.5				0-0.5				0-0.5				0-0.5			
Sample Matrix:		SOIL				SOIL				Soil		SOIL				SOIL				SOIL				SOIL			
Analyte:	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organics by USEPA 5035																											
1,2-Dichlorobenzene	61	-	-	-	-	-	-	-	-	-	-	0.0003	U	0.0042	0.0003	0.00035	U	0.0049	0.00035	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.5	-	-	-	-	-	-	-	-	-	-	0.00054	U	0.0021	0.00054	0.00063	U	0.0024	0.00063	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	10	-	-	-	-	-	-	-	-	-	-	0.00036	U	0.0042	0.00036	0.00042	U	0.0049	0.00042	-		-	-	-		-	-
2-Butanone	400	-	-	-	-	-	-	-	-	-	-	0.0046	U	0.021	0.0046	0.0054	U	0.024	0.0054	-	-	-	-	-	-	-	-
Acetone	8,800	-	-	-	-	-	-	-	-	-	-	0.021	U	0.052	0.021	0.024	U	0.061	0.024	-	-	-	-	-	-	-	-
Benzene	0.5	-	-	-	-	-	-	-	-	-	-	0.00034	U	0.001	0.00034	0.0004	U	0.0012	0.0004	-	-	-	-	-	-	-	-
Cyclohexane	6,900	-	-	-	-	-	-	-	-	-	-	0.0011	U	0.021	0.0011	0.0013	U	0.024	0.0013	-	-	-	-	-	-	-	-
Ethylbenzene	70	-	-	-	-	-	-	-	-	-	-	0.00029	U	0.0021	0.00029	0.00034	U	0.0024	0.00034	-	-	-	-	-	-	-	-
Isopropylbenzene	2,500	-	-	-	-	-	-	-	-	-	-	0.00023	U	0.0021	0.00023	0.00026	U	0.0024	0.00026	-	-	-	-	-	-	-	-
Methyl Acetate	9,700	-	-	-	-	-	-	-	-	-	-	0.002	U	0.0083	0.002	0.0023	U	0.0097	0.0023	-	-	-	-	-	-	-	-
Methyl cyclohexane	--	-	-	-	-	-	-	-	-	-	-	0.0012	U	0.0083	0.0012	0.0015	U	0.0097	0.0015	-	-	-	-	-	-	-	-
Methyl tert butyl ether	2	-	-	-	-	-	-	-	-	-	-	0.00042	U	0.0042	0.00042	0.00049	U	0.0049	0.00049	-	-	-	-	-	-	-	-
o-Xylene	1,000	-	-	-	-	-	-	-	-	-	-	0.00061	U	0.0021	0.00061	0.00071	U	0.0024	0.00071	-	-	-	-	-	-	-	-
p/m-Xylene	1,000	-	-	-	-	-	-	-	-	-	-	0.0012	U	0.0042	0.0012	0.0014	U	0.0049	0.0014	-	-	-	-	-	-	-	-
Styrene	24	-	-	-	-	-	-	-	-	-	-	0.00041	U	0.0021	0.00041	0.00048	U	0.0024	0.00048	-	-	-	-	-	-	-	-
Toluene	100	-	-	-	-	-	-	-	-	-	-	0.0011	U	0.0021	0.0011	0.0013	U	0.0024	0.0013	-	-	-	-	-	-	-	-
Xylenes, Total	1,000	-	-	-	-	-		-	-	-	-	0.00061	U	0.0021	0.00061	0.00071	U	0.0024	0.00071	-	-	-	-	-	-	-	-
Inorganics																											
Lead, Total	1000	-	-	-	-	80.3		5.9	0.316			1120		4.73	0.254	242		6.56	0.352	-		-	-	223		5.51	0.296
Chromium, Total	190000	163		1.19	0.114	204		1.18	0.113	560		491		0.946	0.091	1030		1.31	0.126	1000		1.17	0.112	535		1.1	0.106
Chromium, Hexavalent	180	0.246	U	1.23	0.246	7.3		1.25	0.25	16		0.198	U	0.99	0.198	0.267	U	1.33	0.267	0.238	U	1.19	0.238	0.222	U	1.11	0.222

Table 14b
Summary of Soil Sampling Results, Bartram's Garden Mile Trail
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	DEP51-S4				DEP51-S5				DEP51-S5-240813				S-5		DEP51-S6				DUP-S (DEP51-S6)				DEP51-S6-240813				S-6	
Lab ID:		L2441149-04				L2441149-05				L2445674-02				410-188472-11		L2441149-06				L2441149-12				L2445674-03				410-188472-12	
Collection Date:		7/22/2024				7/22/2024				8/13/2024				9/16/2024		7/22/2024				7/22/2024				8/13/2024				9/16/2024	
Sample Depth:		0-0.5				0-0.5				0-0.5				0-0.5		0-0.5				0-0.5				0-0.5				0-0.5	
Sample Matrix:		SOIL				SOIL				SOIL				Soil		SOIL				SOIL				SOIL				Soil	
Analyte:	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q
Volatile Organics by USEPA 5035																													
1,2-Dichlorobenzene	61	0.00028	U	0.0039	0.00028	0.00022	U	0.0031	0.00022	-		-	-	-	-	0.0002	U	0.0028	0.0002	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.5	0.00051	U	0.002	0.00051	0.0004	U	0.0015	0.0004	-		-	-	-	-	0.00036	U	0.0014	0.00036	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	10	0.00034	U	0.0039	0.00034	0.00026	U	0.0031	0.00026	-		-	-	-	-	0.00024	U	0.0028	0.00024	-	-	-	-	-	-	-	-	-	-
2-Butanone	400	0.0044	U	0.02	0.0044	0.0034	U	0.015	0.0034	-		-	-	-	-	0.0031	U	0.014	0.0031	-	-	-	-	-	-	-	-	-	-
Acetone	8,800	0.02	U	0.049	0.02	0.015	U	0.038	0.015	-		-	-	-	-	0.014	U	0.035	0.014	-	-	-	-	-	-	-	-	-	-
Benzene	0.5	0.00033	U	0.00099	0.00033	0.00026	U	0.00077	0.00026	-		-	-	-	-	0.00023	U	0.0007	0.00023	-	-	-	-	-	-	-	-	-	-
Cyclohexane	6,900	0.0011	U	0.02	0.0011	0.00084	U	0.015	0.00084	-		-	-	-	-	0.00076	U	0.014	0.00076	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	70	0.00028	U	0.002	0.00028	0.00022	U	0.0015	0.00022	-		-	-	-	-	0.0002	U	0.0014	0.0002	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	2,500	0.00022	U	0.002	0.00022	0.00017	U	0.0015	0.00017	-		-	-	-	-	0.00015	U	0.0014	0.00015	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	9,700	0.0019	U	0.0079	0.0019	0.0015	U	0.0062	0.0015	-		-	-	-	-	0.0044	J	0.0056	0.0013	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	--	0.0012	U	0.0079	0.0012	0.00093	U	0.0062	0.00093	-		-	-	-	-	0.00084	U	0.0056	0.00084	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether	2	0.0004	U	0.0039	0.0004	0.00031	U	0.0031	0.00031	-		-	-	-	-	0.00028	U	0.0028	0.00028	-	-	-	-	-	-	-	-	-	-
o-Xylene	1,000	0.00057	U	0.002	0.00057	0.00045	U	0.0015	0.00045	-		-	-	-	-	0.0004	U	0.0014	0.0004	-	-	-	-	-	-	-	-	-	-
p/m-Xylene	1,000	0.0011	U	0.0039	0.0011	0.00086	U	0.0031	0.00086	-		-	-	-	-	0.00078	U	0.0028	0.00078	-	-	-	-	-	-	-	-	-	-
Styrene	24	0.00039	U	0.002	0.00039	0.0003	U	0.0015	0.0003	-		-	-	-	-	0.00027	U	0.0014	0.00027	-	-	-	-	-	-	-	-	-	-
Toluene	100	0.0011	U	0.002	0.0011	0.00084	U	0.0015	0.00084	-		-	-	-	-	0.00076	U	0.0014	0.00076	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	1,000	0.00057	U	0.002	0.00057	0.00045	U	0.0015	0.00045	-		-	-	-	-	0.0004	U	0.0014	0.0004	-	-	-	-	-	-	-	-	-	-
Inorganics																													
Lead, Total	1000	201		3.93	0.211	2330		5.12	0.274	132		4.9	0.263			290		4.82	0.258					1060		8.9	0.477		
Chromium, Total	190000	890		0.786	0.076	559		1.02	0.098	246		0.98	0.094	300		311		0.965	0.093	305		0.976	0.094	522		1.78	0.171	250	
Chromium, Hexavalent	180	0.165	U	0.827	0.165	0.217	U	1.08	0.217	7.06		1	0.2	24		0.198	U	0.99	0.198	0.208	U	1.04	0.208	5.04		0.894	0.179	5.8	

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	DEP51-S11				DEP51-S12-240813				DEP51-S13-240813				DEP51-S14-240813				DEP51-S15-240813				S-16		S-18		S-19		S-20	
Lab ID:		L2441149-11				L2445674-06				L2445674-07				L2445674-08				L2445674-09				410-188472-2		410-188472-3		410-188472-4		410-188472-5	
Collection Date:		7/22/2024				8/13/2024				8/13/2024				8/13/2024				8/13/2024				9/16/2024		9/16/2024		9/16/2024		9/16/2024	
Sample Depth:		0-0.5				0-0.5				0-0.5				0-0.5				0-0.5				0-0.5		0-0.5		0-0.5		0-0.5	
Sample Matrix:		SOIL				SOIL				SOIL				SOIL				SOIL				Soil		Soil		Soil		Soil	
Analyte:	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	Conc	Q	Conc	Q	Conc	Q
Volatile Organics by USEPA 5035																													
1,2-Dichlorobenzene	61	0.00032	U	0.0045	0.00032	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.5	0.00058	U	0.0022	0.00058	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	10	0.00038	U	0.0045	0.00038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	400	0.14		0.022	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	8,800	0.23		0.056	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	0.5	0.00037	U	0.0011	0.00037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	6,900	0.0012	U	0.022	0.0012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	70	0.00032	U	0.0022	0.00032	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	2,500	0.00024	U	0.0022	0.00024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	9,700	0.0021	U	0.009	0.0021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	--	0.0014	U	0.009	0.0014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether	2	0.00045	U	0.0045	0.00045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	1,000	0.00065	U	0.0022	0.00065	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p/m-Xylene	1,000	0.0012	U	0.0045	0.0012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	24	0.00044	U	0.0022	0.00044	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	100	0.0012	U	0.0022	0.0012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	1,000	0.00065	U	0.0022	0.00065	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics																													
Lead, Total	1000	185		4.5	0.241	145		5.38	0.289	1290		3.92	0.21	253		5.97	0.32	139		5.51	0.295	-	-	-	-	-	-	-	-
Chromium, Total	190000	101		0.899	0.086	822		1.08	0.103	412		0.783	0.075	292		1.19	0.115	57.1		1.1	0.106	79		60		56		41	
Chromium, Hexavalent	180	0.186	U	0.928	0.186	0.218	U	1.09	0.218	18.8		0.82	0.164	1.13	J	1.29	0.258	0.226	U	1.13	0.226	ND		0.86	J	ND		ND	

Table 14b
Summary of Soil Sampling Results, Bartram's Garden Mile Trail
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	DEP51-S7				DEP51-S7-240813				DEP51-S8			
Lab ID:		L2441149-07				L2445674-10				L2441149-08			
Collection Date:		7/22/2024				8/13/2024				7/22/2024			
Sample Depth:		0-0.5				0-0.5				0-0.5			
Sample Matrix:		SOIL				SOIL				SOIL			
Analyte:	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organics by USEPA 5035													
1,2-Dichlorobenzene	61	0.00024	U	0.0033	0.00024	-	-	-	-	0.00028	U	0.004	0.00028
1,2-Dichloroethane	0.5	0.00042	U	0.0016	0.00042	-	-	-	-	0.00051	U	0.002	0.00051
1,4-Dichlorobenzene	10	0.00028	U	0.0033	0.00028	-	-	-	-	0.00034	U	0.004	0.00034
2-Butanone	400	0.0037	U	0.016	0.0037	-	-	-	-	0.0044	U	0.02	0.0044
Acetone	8,800	0.016	U	0.041	0.016	-	-	-	-	0.02	U	0.049	0.02
Benzene	0.5	0.00027	U	0.00082	0.00027	-	-	-	-	0.00033	U	0.00099	0.00033
Cyclohexane	6,900	0.0009	U	0.016	0.0009	-	-	-	-	0.0011	U	0.02	0.0011
Ethylbenzene	70	0.00023	U	0.0016	0.00023	-	-	-	-	0.00028	U	0.002	0.00028
Isopropylbenzene	2,500	0.00018	U	0.0016	0.00018	-	-	-	-	0.00022	U	0.002	0.00022
Methyl Acetate	9,700	0.0016	U	0.0066	0.0016	-	-	-	-	0.0019	U	0.0079	0.0019
Methyl cyclohexane	--	0.001	U	0.0066	0.001	-	-	-	-	0.0012	U	0.0079	0.0012
Methyl tert butyl ether	2	0.00033	U	0.0033	0.00033	-	-	-	-	0.0004	U	0.004	0.0004
o-Xylene	1,000	0.00048	U	0.0016	0.00048	-	-	-	-	0.00058	U	0.002	0.00058
p/m-Xylene	1,000	0.00092	U	0.0033	0.00092	-	-	-	-	0.0011	U	0.004	0.0011
Styrene	24	0.00032	U	0.0016	0.00032	-	-	-	-	0.00039	U	0.002	0.00039
Toluene	100	0.0009	U	0.0016	0.0009	-	-	-	-	0.0011	U	0.002	0.0011
Xylenes, Total	1,000	0.00048	U	0.0016	0.00048	-	-	-	-	0.00058	U	0.002	0.00058
Inorganics													
Lead, Total	1000	140		5.18	0.278	154		4.77	0.256	474		6.3	0.338
Chromium, Total	190000	433		1.04	0.099	660		0.955	0.092	1110		1.26	0.121
Chromium, Hexavalent	180	0.273	J	1.09	0.218	0.466	J	1.01	0.202	0.265	U	1.33	0.265

Sample ID:	Representative Pennsylvania Soil MSC (lower of Soil to GW and Direct Contact Screening Values) (0 to 2 feet bgs)	S-21		Dup-1 (S-21)		S-22		S-23	
Lab ID:		410-188472-6		410-188472-9		410-188472-7		410-188472-8	
Collection Date:		9/16/2024		9/16/2024		9/16/2024		9/16/2024	
Sample Depth:		0-0.5		0-0.5		0-0.5		0-0.5	
Sample Matrix:		Soil		Soil		Soil		Soil	
Analyte:	(mg/kg)	Conc	Q	Conc	Q	Conc	Q	Conc	Q
Volatile Organics by USEPA 5035									
1,2-Dichlorobenzene	61	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.5	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	10	-	-	-	-	-	-	-	-
2-Butanone	400	-	-	-	-	-	-	-	-
Acetone	8,800	-	-	-	-	-	-	-	-
Benzene	0.5	-	-	-	-	-	-	-	-
Cyclohexane	6,900	-	-	-	-	-	-	-	-
Ethylbenzene	70	-	-	-	-	-	-	-	-
Isopropylbenzene	2,500	-	-	-	-	-	-	-	-
Methyl Acetate	9,700	-	-	-	-	-	-	-	-
Methyl cyclohexane	--	-	-	-	-	-	-	-	-
Methyl tert butyl ether	2	-	-	-	-	-	-	-	-
o-Xylene	1,000	-	-	-	-	-	-	-	-
p/m-Xylene	1,000	-	-	-	-	-	-	-	-
Styrene	24	-	-	-	-	-	-	-	-
Toluene	100	-	-	-	-	-	-	-	-
Xylenes, Total	1,000	-	-	-	-	-	-	-	-
Inorganics									
Lead, Total	1000	-	-	-	-	-	-	-	-
Chromium, Total	190000	980		980		160		56	
Chromium, Hexavalent	180	32		7.7		3.9		ND	

Table 14b
Summary of Soil Sampling Results, Bartram's Garden Mile Trail
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Notes:
1. Concentrations are reported in micrograms per liter.
2. Shaded results indicate detected concentrations in exceedance of the Representative Pennsylvania Soil MSCs.

Acronyms and Abbreviations:
- = Data not available
-- = No Pennsylvania Department of Environmental Protection criteria established for this parameter.
bgs = below ground surface
Conc = concentration
ID = identification
MDL = method detection limit
mg/kg = milligram per kilogram
MSC = Medium Specific Concentration
ND = not detected
Q = qualifier
RL = reporting limit
USEPA = United States Environmental Protection Agency

Laboratory Qualifiers:
J = The compound was detected; however, the concentration is below the laboratory method detection limit. so this concentration is estimated.
U = The compound was undetected at the listed laboratory method detection limit.

Table 15
Summary of 2024 Surface Water Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Analyte:	Pennsylvania Fish and Aquatic Life Criteria	SW-1 L2423395-01 4/29/2024 Water				DEP51-W1 L2441149-13 7/22/2024 Water				DEP51-W2 L2441149-14 7/22/2024 Water				DEP51-W3 L2441149-15 7/22/2024 Water				DEP51-W4 L2441149-16 7/22/2024 Water				DUP-W (DEP51-W4) L2441149-17 7/22/2024 Water				DEP51-W5-240813 L2445674-12 8/13/2024 Water				DEP51-W6-240813 L2445674-13 8/13/2024 Water			
	(µg/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Volatile Organics by GC/MS																																	
1,2-Dichlorobenzene	160	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	0.18	U	2.5	0.18	-	-	-	-	-	-	-	-
1,2-Dichloroethane	9.9	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	0.13	U	0.5	0.13	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	150	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	0.19	U	2.5	0.19	-	-	-	-	-	-	-	-
2-Butanone	--	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	1.9	U	5	1.9	-	-	-	-	-	-	-	-
Acetone	3500	8.6		5	1.5	1.8	J	5	1.5	1.7	J	5	1.5	1.5	U	5	1.5	1.6	J	5	1.5	1.7	J	5	1.5	-	-	-	-	-	-	-	-
Benzene	0.58	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	0.16	U	0.5	0.16	-	-	-	-	-	-	-	-
Cyclohexane	0.0004	***0.27***	U	10	0.27	***0.27***	U	10	0.27	***0.27***	U	10	0.27	***0.27***	U	10	0.27	***0.27***	U	10	0.27	***0.27***	U	10	0.27	-	-	-	-	-	-	-	-
Ethylbenzene	68	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	0.17	U	0.5	0.17	-	-	-	-	-	-	-	-
Isopropylbenzene	--	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	0.19	U	0.5	0.19	-	-	-	-	-	-	-	-
Methyl Acetate	--	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	0.23	U	2	0.23	-	-	-	-	-	-	-	-
Methyl cyclohexane	--	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	0.4	U	10	0.4	-	-	-	-	-	-	-	-
Methyl tert butyl ether	--	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	0.17	U	1	0.17	-	-	-	-	-	-	-	-
o-Xylene	--	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	0.39	U	1	0.39	-	-	-	-	-	-	-	-
p/m-Xylene	--	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	-	-	-	-	-	-	-	-
Styrene	--	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	0.36	U	1	0.36	-	-	-	-	-	-	-	-
Toluene	57	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	0.2	U	0.75	0.2	-	-	-	-	-	-	-	-
Xylenes, Total	210	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	0.33	U	1	0.33	-	-	-	-	-	-	-	-
Semivolatile Organics by GC/MS																																	
1,2,4,5-Tetrachlorobenzene	0.03	***0.44***	U	1.7	0.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	--	0.45	U	2	0.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	17	0.53	U	2	0.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	300	0.33	U	2	0.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	--	0.46	U	2	0.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	0.12	***0.34***	U	1.4	0.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	--	0.5	U	2	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	20	0.26	U	2	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	50	0.41	U	2	0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	43	0.46	U	2	0.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	1	0.33	U	2	0.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	20	0.28	U	2	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semivolatile Organics by GC/MS-SIM																																	
Benzo(a)anthracene	0.001	***0.02***	U	0.05	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.0001	***0.02***	U	0.1	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.001	***0.01***	J	0.05	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	--	0.01	U	0.1	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.01	0.01	J	0.1	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-chloroethyl)ether	0.03	0.02	U	0.1	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.001	***0.01***	U	0.1	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals																																	
Chromium, Dissolved	90.34	-	-	-	-	0.2748	J	1	0.178	0.2298	J	1	0.178	0.2059	J	1	0.178	0.2308	J	1	0.178	0.2487	J	1	0.178	-	-	-	-	-	-	-	-
Lead, Dissolved	3.27	-	-	-	-	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	0.343	U	1	0.343	-	-	-	-	-	-	-	-
General Chemistry																																	
Chromium, Hexavalent	11	-	-	-	-	3	U	10	3	3	U	10	3	3	U	10	3	3	U	10	3	3	U	10	3	19600		500	150	28000		1000	300
Total Metals																																	
Chromium, Total	90.34	21560		500	89	0.3406	J	1	0.178	0.2938	J	1	0.178	0.27	J	1	0.178	0.2745	J	1	0.178	0.2831	J	1	0.178	23850		500	89	33610		500	89
Lead, Total	3.27	-	-	-	-	1.069		1	0.343	0.5946	J	1	0.343	0.615	J	1	0.343	0.7412	J	1	0.343	0.6885	J	1	0.343	1.715	U	5	1.715	1.715	U	5	1.715

Table 15
Summary of 2024 Surface Water Sampling Results
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Notes:

1. Constituents that have been detected at least once onsite during previous investigations, if available for 2024, are presented on table for informational purposes only. The primary goal of the investigation was to evaluate chromium species.
2. Shaded results exceed most stringent Pennsylvania Fish and Aquatic Life Criteria, for samples collected in the surface water body.
3. The estimated hardness of surface water is 127.35 (calculated using hardness calculator utilizing DEP51-W1 sample calcium and magnesium results).
4. ***Bold and italicized*** values indicate a non-detected result with the MDL greater than the criteria.
5. Samples SW-1, DEP51-W5 and DEP51-W6 were located in a drainage swale onsite. It is not considered to be a surface water body and would not support aquatic life.

Acronyms and Abbreviations:

- = no data available
-- = No PADEP Groundwater Quality Standard established for this criteria
µg/L - microgram per liter
Conc = concentration
GC/MS = gas chromatography / mass spectrometry
ID = identification
MDL = method detection limit
MSC = Medium Specific Concentration
PADEP = Pennsylvania Department of Environmental Protection
Q = qualifier
RL = reporting limit
SHS = Statewide Health Standard
SIM = selected ion monitoring

Laboratory Qualifiers:

J - The compound was detected; however, the concentration is below the laboratory method detection limit. Accordingly, this concentration is estimated.
U - Compound was undetected at the listed laboratory method detection limit.

Table 16
Summary of Soil Sampling Locations with Exceedances
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Parameter	Area	Soil Sampling Locations with Exceedances			
		Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') Screening Value	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') Screening Value	Applicable Pennsylvania Non-Residential Soil to Groundwater Screening Value (Higher of Generic and 100 X GW MSC)	Pennsylvania Non-Residential Soil SHS Vapor Intrusion Screening Value
AST Case					
Benzene		**280 mg/kg**	**330 mg/kg**	**0.5 mg/kg**	**0.13 mg/kg**
	Tank Containment Area 1			7551-P6 (3 ft) *[0.72 mg/kg]*	7551-P6 (3 ft) *[0.72 mg/kg]*
	Tank Containment Area 1			UNK-ST-N (3 ft) *[0.56 mg/kg]*	UNK-ST-N (3 ft) *[0.56 mg/kg]*
	Tank Containment Area 3			Pipe 29(2 ft) *[0.66 mg/kg]*	Pipe 29(2 ft) *[0.66 mg/kg]*
	Tank Containment Area 1			SB-105 (4-4.5 ft) *[1.8 mg/kg]*	SB-105 (4-4.5 ft) *[1.8 mg/kg]*
	Tank Containment Area 1			SB-213 (4-4.5 ft) *[1.8 mg/kg]*	SB-213 (4-4.5 ft) *[1.8 mg/kg]*
	Tank Containment Area 1				SB-207 (4-4.5 ft) *[0.19 mg/kg]*
	Tank Containment Area 1				SB-216 (3.5-4 ft) *[0.27 mg/kg]*
Naphthalene		**66 mg/kg**	**77 mg/kg**	**25 mg/kg**	**25 mg/kg**
	Tank Containment Area 1		SB-213 (4-4.5 ft) *[1,700 mg/kg]*	SB-215 (4.5-5 ft) *[38 mg/kg]*	SB-213 (4-4.5 ft) *[1,700 mg/kg]*
	Tank Containment Area 1				SB-215 (4.5-5 ft) *[38 mg/kg]*
Lead, total		**1,000 mg/kg**	**190,000 mg/kg**	**450 mg/kg**	**NA**
	Tank Containment Area 1			7550-P1 (3 ft) *[690 mg/kg]*	
	Tank Containment Area 1			Pipe 70 (2 ft) *[750 mg/kg]*	
	Tank Containment Area 1			Pipe 81 (2 ft) *[500 mg/kg]*	
	Tank Containment Area 1			Pipe 86 (2 ft) *[540 mg/kg]*	
	Tank Containment Area 1			Pipe 87 (2 ft) *[720 mg/kg]*	
Act 2 Case					
Benzene		**280 mg/kg**	**330 mg/kg**	**0.5 mg/kg**	**0.13 mg/kg**
	Pad West of Tank Containment Area 1			SB-202 (8.5-9) *[2.6 mg/kg]*	SB-202 (8.5-9) *[2.6 mg/kg]*
	Pad West of Tank Containment Area 1			SB-204 (8.5-9) *[0.59 mg/kg]*	SB-204 (8.5-9) *[0.59 mg/kg]*
	Pad West of Tank Containment Area 1			SB-217 (8.5-9) *[1 mg/kg]*	SB-217 (8.5-9) *[1 mg/kg]*
	Pad West of Tank Containment Area 1				SB-203 (8.5-9) *[0.4 mg/kg]*
Lead, total		**1,000 mg/kg**	**190,000 mg/kg**	**450 mg/kg**	**NA**
	Tank Containment Area 3			941-P3 (3 ft) *[610 mg/kg]*	
	Tank Containment Area 3			941-Center (5 ft) *[560 mg/kg]*	
	Tank Containment Area 2			1043-P2 (3 ft) *[490 mg/kg]*	
	Tank Containment Area 2			1043-P4 (3 ft) *[880 mg/kg]*	
	Tank Containment Area 2			1043-P5 (3 ft) *[560 mg/kg]*	
	Tank Containment Area 2			1044-P3 (3 ft) *[810 mg/kg]*	
	Tank Containment Area 2			1044-P4 (3 ft) *[2,100 mg/kg]*	
	Tank Containment Area 2			1044-Center (5 ft) *[990 mg/kg]*	
	Tank Containment Area 3			2040-P2 (3 ft) *[1,200 mg/kg]*	
	Tank Containment Area 3			Pipe 33 (2 ft) *[920 mg/kg]*	
	Tank Containment Area 2			Pipe 46 (2 ft) *[600 mg/kg]*	
	Tank Containment Area 2			Pipe 51 (2 ft) *[460 mg/kg]*	
	Tank Containment Area 2			Pipe 55 (2 ft) *[750 mg/kg]*	

Table 16
Summary of Soil Sampling Locations with Exceedances
Alliance 51st Street LLC
1630-1646 South 51st Street
Philadelphia, Pennsylvania

Parameter	Area	Soil Sampling Locations with Exceedances			
		Pennsylvania Non-Residential Direct Contact Surface Soil (0-2') Screening Value	Pennsylvania Non-Residential Direct Contact Subsurface Soil (2-15') Screening Value	Applicable Pennsylvania Non-Residential Soil to Groundwater Screening Value (Higher of Generic and 100 X GW MSC)	Pennsylvania Non-Residential Soil SHS Vapor Intrusion Screening Value
	Tank Containment Area 2			Pipe 61 (2 ft) *[570 mg/kg]*	
	Tank Containment Area 3	Pipe 22 (2 ft) [1,100 mg/kg]		Pipe 22 (2 ft) [1,100 mg/kg]	
	Tank Containment Area 3			Pipe 22 (13-13.5ft) *[1,520 mg/kg]*	
	Tank Containment Area 2			SB-305 (2.5-3 ft) *[602 mg/kg]*	
Bis(2-chloroethyl)ether		**6.7 mg/kg**	**7.6 mg/kg**	**0.076 mg/kg**	**0.14 mg/kg**
	Tank Containment Area 1			SB-103 (4.5-5 ft) *[1.2 mg/kg]*	SB-103 (4.5-5 ft) *[1.2 mg/kg]*
Biphenyl		**34 mg/kg**	**40 mg/kg**	**1.5 mg/kg**	**0.14 mg/kg**
	Tank Containment Area 1			SB-103 (4.5-5 ft) *[2.8 J mg/kg]*	SB-103 (4.5-5 ft) *[2.8 J mg/kg]*
Chromium		**190,000 mg/kg**	**190,000 mg/kg**	**190,000 mg/kg**	**NA**
	Tank Containment Area 2		1043-P4 (7.5-8) *[200,000 mg/kg]*	1043-P4 (7.5-8) *[200,000 mg/kg]*	
Hexavalent Chromium		**180 mg/kg**	**140,000 mg/kg**	**190 mg/kg**	**NA**
	Tank Containment Area 1	S-209 (0-0.5) *[259 mg/kg]*		S-209 (0-0.5) *[259 mg/kg]*	
	Tank Containment Area 1	S-216 (0-0.5) *[1,660 mg/kg]*		S-216 (0-0.5) *[1,660 mg/kg]*	
	Tank Containment Area 1	S-502 (0-0.5) *[279 mg/kg]*		S-502 (0-0.5) *[279 mg/kg]*	
	Tank Containment Area 1	S-604 (0-0.5) *[5,710 mg/kg]*		S-604 (0-0.5) *[5,710 mg/kg]*	
	Tank Containment Area 1			SB-206 (3-3.5) *[27,900 mg/kg]*	
	Tank Containment Area 1			SB-209 (4.5-5) *[11,300 mg/kg]*	
	Tank Containment Area 1			SB-216 (4.5-5) *[15,000 mg/kg]*	
	Tank Containment Area 1			SB-501 (4.5-5) *[5,010 mg/kg]*	
	Tank Containment Area 1			SB-502 (4.5-5) *[12,300 mg/kg]*	
	Tank Containment Area 2			SB-511 (11-11.5) *[8,130 mg/kg]*	
	Tank Containment Area 1	SB-703 (0.0-0.5) *[690 mg/kg]*		SB-703 (0.0-0.5) *[690 mg/kg]*	
	Tank Containment Area 1			SB-703 (5.5-6) *[4,090 mg/kg]*	
	Site Boundary	SB-705 (0.0-0.5) *[1,730 mg/kg]*		SB-705 (0.0-0.5) *[1,730 mg/kg]*	
	Site Boundary			SB-705 (3.5-4.0) *[5,430 mg/kg]*	

Notes:
1. Sample identification, depth, and concentration are presented in the table. For example, Pipe 22 (2 ft) [1,100 mg/kg] is sample Pipe 22 collected at a depth of 2 feet with a lead concentration of 1,100 mg/kg.
2. Chromium-related exceedances from samples collected outside the site boundary are not included in this table.
3. Italicized values indicate the result of the sample.

Acronyms and Abbreviations:
' = foot/feet
AST = aboveground storage tank
ft = foot/feet
GW = groundwater
mg/kg = milligram per kilogram
MSC = Medium Specific Concentration
NA = not applicable
SHS = Statewide Health Standards

Laboratory Qualifier:
J = The compound was detected; however, the concentration is below the laboratory method detection limit, so this concentration is estimated.

Table 17a
Summary of Site-Related Constituents of Concern - Soil
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Compound	CAS Number
Organic Compounds	
1,2,4-Trimethylbenzene	95-63-6
Benzene	71-43-2
Cyclohexane	110-82-7
Ethylbenzene	100-41-4
Isopropylbenzene	98-82-8
Methyl cyclohexane	108-87-2
o-Xylene	95-47-6
p/m-Xylene	179601-23-1
Toluene	108-88-3
Xylenes, total	1330-20-7
1,2-Dichlorobenzene	95-50-1
1,4-Dichlorobenzene	106-46-7
Acetone	67-64-1
Methyl tert-butyl ether	1634-04-4
Styrene	100-42-5
Naphthalene	91-20-3
1,3,5-Trimethylbenzene	108-67-8
2-Butanone	78-93-3
1,2-Dichloroethane	107-06-2
Methyl acetate	79-20-9
2-Methylnaphthalene	91-57-6
Acenaphthene	83-32-9
Anthracene	120-12-7
Benzo(a)anthracene	56-55-3
Benzo(a)pyrene	50-32-8
Benzo(b)fluoranthene	205-99-2
Benzo(ghi)perylene	191-24-2
Benzo(k)fluoranthene	207-08-9
Biphenyl	92-52-4
Chrysene	218-01-9
Dibenzofuran	132-64-9
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno(1,2,3-cd)pyrene	193-39-5
Naphthalene	91-20-3
Phenanthrene	85-01-8
Pyrene	129-00-0
Bis(2-chloroethyl)ether	111-44-4
Inorganic Compounds	
Lead	7439-92-1
Chromium	7440-47-3
Hexavalent chromium	18540-29-9

Acronym:
CAS = Chemical Abstracts Service

Table 17b
Summary of Site-Related Constituents of Concern - Groundwater
Alliance 51st Street LLC
1630 - 1646 South 51st Street
Philadelphia, Pennsylvania

Compound	CAS
Organic Compounds	
1,2,4-Trimethylbenzene	95-63-6
Benzene	71-43-2
Chloromethane	74-87-3
Cyclohexane	110-82-7
Isopropylbenzene	98-82-8
o-Xylene	95-47-6
p/m-Xylene	179601-23-1
Toluene	108-88-3
Xylenes, total	1330-20-7
Naphthalene	91-20-3
Methyl cyclohexane	108-87-2
Ethylbenzene	100-41-4
Methyl tert-butyl ether	1634-04-4
1,3,5-Trimethylbenzene	108-67-8
Acetone	67-64-1
Carbon disulfide	75-15-0
2-Butanone	78-93-3
1,2-Dichloroethane	107-06-2
Vinyl chloride	75-01-4
1,2-Dichloroethene, total	540-59-0
cis-1,2-Dichloroethene	156-59-2
1,2-Dichlorobenzene	95-50-1
Chlorobenzene	108-90-7
1,4-Dichlorobenzene	106-46-7
1,3-Dichlorobenzene	541-73-1
2-Hexanone	591-78-6
4-Methyl-2-pentanone	108-10-1
Inorganic Compounds	
Lead	7439-92-1
Chromium	7440-47-3
Hexavalent chromium	18540-29-9

Acronym:
CAS = Chemical Abstracts Service

Figures

SOURCE: USGS TOPOGRAPHIC MAP QUADRANGLE: PHILADELPHIA PA, NJ DATED: 2019

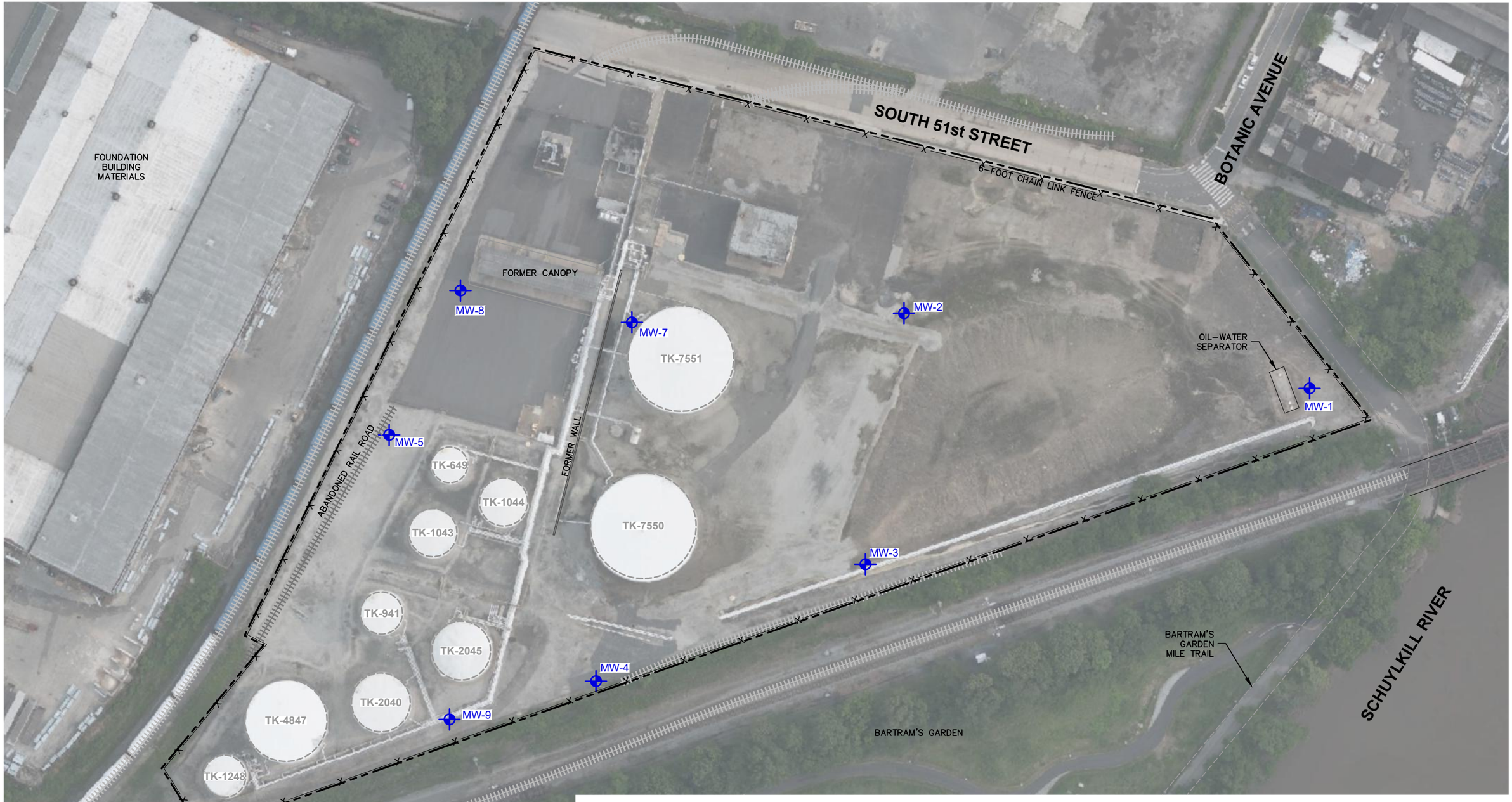
ALLIANCE 51st STREET, LLC
1630-1646 SOUTH 51st STREET
PHILADELPHIA, PENNSYLVANIA

SITE LOCATION MAP

ARCADIS

FIGURE 1

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F01-SITE LOCATION.dwg LAYOUT: 1 SAVED: 2/6/2025 5:05 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTTED: 2/7/2025 9:14 AM BY: DAVIS, KATHI
IMAGES: GEN-X-USGS-2019.jpg Arcadis Logo.png
XREFS: REP-X-RAP



LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- CHAIN LINK FENCE
- TK-2045 — FORMER TANK AND TANK IDENTIFICATION

NOTES:

1. **SOURCE:** ©2024 Microsoft Corporation©Maxar ©CNES (2024) Distribution Airbus DS
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.
3. AERIAL IMAGE IS PRIOR TO TANK REMOVAL. ALL TANKS AND OTHER ABOVE-GRADE STRUCTURES HAVE BEEN REMOVED.

0 100' 200'

GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

SITE PLAN

ARCADIS

FIGURE 2

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999998-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F02-SITE PLAN.dwg LAYOUT: 2 SAVED: 2/7/2025 9:11 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ----
PLOTTED: 2/7/2025 9:12 AM BY: DAVIS, KATHI
XREFS: REP-X-SITE REP-X-RBL
IMAGES: Arcadis Logo.PNG

LEGEND:

SITE BOUNDARY

0 300' 600'

GRAPHIC SCALE

NOTES:

1. **SOURCE:** ©2024 Microsoft Corporation ©Maxar ©CNES (2024) Distribution Airbus DS
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

SITE AND SURROUNDING AREA

ARCADIS

FIGURE 3

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F03-SITE AND SURROUNDING AREA.dwg LAYOUT: 3 SAVED: 2/7/2025 9:15 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 2/7/2025 9:15 AM BY: DAVIS, KATHI
XREFS:
REP-X-RBL
REP-X-SITE
IMAGES:
Arcadis Logo PNG

LEGEND:

- TEST PIT (ARCADIS - OCTOBER 2021)
- SOIL PILE BORING (ARCADIS - OCTOBER 2021)
- SOIL BORING (ARCADIS - OCTOBER 2021)
- SAMPLING LOCATION - PIPE (STANTEC - 2021)
- SAMPLING LOCATION - TANK PERIMETER (STANTEC - 2021)
- SAMPLING LOCATION - TANK BOTTOM (STANTEC - 2021)
- SOIL BORING (ARCADIS - MARCH 2022)
- SOIL GAS SAMPLING LOCATION (ARCADIS - MAY 2022)
- SOIL BORING (ARCADIS - MARCH 2023)
- SOIL BORING (ARCADIS - MAY / JUNE 2024)
- SOIL BORING (ARCADIS - AUGUST 2024)
- SOIL BORING (ARCADIS - JANUARY 2025)
- TEST PIT (ARCADIS - JULY 2024)
- SOIL SAMPLING LOCATION (ARCADIS AND/OR PADEP - JULY TO SEPT 2024)
- MONITORING WELL
- TEMPORARY WELL
- SITE BOUNDARY
- RAILROAD
- FENCE
- BARTRAM'S GARDEN MILE TRAIL
- TK-941 FORMER TANK AND TANK IDENTIFICATION

SOUTH 51st STREET

6 FOOT CHAIN LINK FENCE

PROPERTY BOUNDARY

ABANDONED RAILROAD

EX. WALL

FORMER CANOPY

BARTRAM'S GARDEN

OIL-WATER SEPARATOR

BARTRAM'S GARDEN MILE TRAIL

BRIDGE

INSET

SEE INSET ABOVE

NOTES:

1. MONITORING WELL LOCATIONS SURVEYED BY DPK ENGINEERING, MONITORING WELL LOCATION MAP, DATED 04/04/2021, ELECTRONIC FILE 22-9519 MW00 2022-04-06.
2. STANTEC SAMPLING LOCATIONS HAVE BEEN DIGITIZED FROM: PROPOSED AST CLOSURE ASSESSMENT SOIL SAMPLE LOCATIONS, FIGURES 2 THROUGH 6, PREPARED BY STANTEC. SCALE IS APPROXIMATE.
3. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.
4. ARCADIS: ARCADIS U.S., INC.
5. AST: ABOVE GROUND STORAGE TANK
6. STANTEC: STANTEC CONSULTING SERVICES, INC.
7. FT.: FOOT

SOURCE:

© 2025 Microsoft Corporation © Maxar © CNES (2024) Distribution Airbus DS

0 80' 160'

GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

INVESTIGATION LOCATIONS

ARCADIS

FIGURE 4

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALL\ANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F04-INVESTIGATION LOCATIONS.dwg LAYOUT: 4 SAVED: 2/12/2025 11:18 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---
PLOTSTYLETABLE: ---- PLOTTED: 2/12/2025 11:18 AM BY: DAVIS, KATHI
XREFS: REP-X-SITE REP-X-PP
IMAGES: Arcadis Logo.PNG

LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- 20 — GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- (20.63) — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF FLOW

SOURCE:
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NOTES:

1. MONITORING WELL LOCATIONS SURVEYED BY DPK ENGINEERING, MONITORING WELL LOCATION MAP, DATED 04/04/2021, ELECTRONIC FILE 22-9519 MW00 2022-04-06.
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.

0 100' 200'
GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

GROUNDWATER ELEVATION AND CONTOUR MAP JULY 2022

ARCADIS

FIGURE
5

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA, PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F05-GWC-JULY 2022.dwg LAYOUT: 5 SAVED: 2/12/2025 11:25 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ----
PLOTTED: 2/12/2025 11:26 AM BY: DAVIS, KATHI
XREFS: IMAGES:
REP-X-RBL Arcadis Logo.PNG
REP-X-SITE

LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- 13 — GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- (14.11) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF FLOW

NOTES:

1. **SOURCE:** ©2025 Microsoft Corporation ©2024 Maxar ©CNES (2024) Distribution Airbus DS
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.

0 300' 600'
GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

GROUNDWATER ELEVATION AND CONTOUR MAP NOVEMBER 2024

ARCADIS

FIGURE 6

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F06-GWC NOV 2024.dwg LAYOUT: 6 SAVED: 2/7/2025 9:52 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ----
PLOTTED: 2/7/2025 9:52 AM BY: DAVIS, KATHI
XREFS: REP-X-SITE REP-X-RBL
IMAGES: Arcadis Logo.PNG

LEGEND:

- TEST PIT (ARCADIS - OCTOBER 2021)
- SOIL PILE BORING (ARCADIS - OCTOBER 2021)
- SOIL BORING (ARCADIS - OCTOBER 2021)
- SAMPLING LOCATION - PIPE (STANTEC - 2021)
- SAMPLING LOCATION - TANK PERIMETER (STANTEC - 2021)
- SAMPLING LOCATION - TANK BOTTOM (STANTEC - 2021)
- SOIL BORING (ARCADIS - MARCH 2022)
- SOIL GAS SAMPLING LOCATION (ARCADIS - MAY 2022)
- SOIL BORING (ARCADIS MARCH - 2023)
- SOIL BORING (ARCADIS - MAY / JUNE 2024)
- SOIL BORING (ARCADIS - AUGUST 2024)
- SOIL BORING (ARCADIS - JANUARY 2025)
- TEST PIT (ARCADIS - JULY 2024)
- MONITORING WELL
- TEMPORARY WELL
- YELLOW — LOCATION EXCEEDS SOIL MEDIUM-SPECIFIC CONCENTRATIONS (MSC) FOR LEAD
- RED — LOCATION EXCEEDS SOIL MSC FOR BENZENE
- ORANGE — LOCATION EXCEEDS SOIL MSC FOR NAPHTHALENE
- BLUE — LOCATION EXCEEDS SOIL MSC FOR BIPHENYL AND BIS (2-CHLOROETHYL) ETHER
- GREEN — LOCATION EXCEEDS PADEP SOIL MSC FOR HEXAVALENT CHROMIUM
- TEAL — LOCATION EXCEEDS PADEP SOIL MSC FOR TOTAL CHROMIUM
- SITE BOUNDARY
- RAILROAD
- FENCE
- BARTRAM'S GARDEB MILE TRAIL
- PROPOSED SITE LAYOUT
- TANK CONTAINMENT AREA

SOUTH 51st STREET

BOTANIC AVENUE

PROPOSED BULIDING FOOTPRINT

TANK CONTAINMENT AREA #1

TANK CONTAINMENT AREA #2

TANK CONTAINMENT AREA #3

PROPOSED LIMIT OF DISTURBANCE

PROPERTY BOUNDARY

OIL-WATER SEPARATOR

BARTRAM'S GARDEN MILE TRAIL

BARTRAM'S GARDEN

0 80' 160'

GRAPHIC SCALE

NOTES:

1. MONITORING WELL LOCATIONS SURVEYED BY DPK ENGINEERING, MONITORING WELL LOCATION MAP, DATED 04/04/2021, ELECTRONIC FILE 22-9519 MW00 2022-04-06.
2. STANTEC SAMPLING LOCATIONS HAVE BEEN DIGITIZED FROM: PROPOSED AST CLOSURE ASSESSMENT SOIL SAMPLE LOCATIONS, FIGURES 2 THROUGH 6, PREPARED BY STANTEC. SCALE IS APPROXIMATE.
3. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.
4. ARCADIS: ARCADIS, U.S., INC.
5. AST: ABOVEGROUND STORAGE TANK
6. STANTEC: STANTEC CONSULTING SERVICES, INC.
7. FT.: FOOT

SOURCE:

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ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

SOIL SAMPLING RESULTS IN EXCEEDANCE OF REPRESENTATIVE MEDIUM-SPECIFIC CONCENTRATIONS

ARCADIS

FIGURE 7

C:\Users\ktavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F07-SOIL SAMPLE RESULTS EXCEEDANCE.dwg LAYOUT: 7 SAVED: 2/7/2025 9:54 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 2/7/2025 9:54 AM BY: DAVIS, KATHI
XREFS:
X-P-LANDSCAPING
REP-X-RBL
REP-X-SITE
IMAGES:
Arcadis Logo.PNG

LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- CHAIN LINK FENCE
- 5 — BENZENE ISOPLETH (DASHED WHERE INFERRED)
- (1.3) — BENZENE CONCENTRATION
- (0.5 U) — NOT DETECTED; CORRESPONDING VALUE IS REPORTING LIMIT

NOTES:

1. **SOURCE:** ©2025 Microsoft Corporation ©2024 Maxar © CNES (2024) Distribution Airbus DS
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.
3. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER.

0 100' 200'

GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

BENZENE GROUNDWATER ISOPLETH JANUARY 2024

ARCADIS

FIGURE 8

XREFS:
REP-X-SITE
REP-X-RBL

IMAGES:
Arcadis Logo.PNG

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LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- CHAIN LINK FENCE
- 5 — DISSOLVED LEAD ISOPLETH (DASHED WHERE INFERRED)
- (15.33) — DISSOLVED LEAD CONCENTRATION
- (1 U) — NOT DETECTED; CORRESPONDING VALUE IS REPORTING LIMIT

NOTES:

1. MONITORING WELL LOCATIONS SURVEYED BY DPK ENGINEERING, MONITORING WELL LOCATION MAP, DATED 04/04/2021, ELECTRONIC FILE 22-9519 MW00 2022-04-06.
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.
3. J = ESTIMATED CONCENTRATION BETWEEN METHOD DETECTION LIMIT AND REPORTING LIMIT.
4. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER.

SOURCE:
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0 100' 200'
GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

FILTERED LEAD GROUNDWATER ISOPLETH JANUARY 2024

ARCADIS

FIGURE 9

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F09-DISSOLVED LEAD ISOPLETH.dwg LAYOUT: 9 SAVED: 2/12/2025 11:37 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 2/12/2025 11:37 AM BY: DAVIS, KATHI
IMAGES: Arcadis Logo.PNG
XREFS: REP-X-SITE REP-X-RBL

LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- CHAIN LINK FENCE
- 100 — DISSOLVED CHROMIUM ISOPLETH (DASHED WHERE INFERRED)
- (463.2) — DISSOLVED CHROMIUM CONCENTRATION

NOTES:

1. **SOURCE:** 2025 Microsoft Corporation ©2024 Maxar ©CNES (2024) Distribution Airbus DS
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.
3. J = ESTIMATED CONCENTRATION BETWEEN METHOD DETECTION LIMIT AND REPORTING LIMIT.
4. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER.

0 100' 200'

GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

FILTERED TOTAL CHROMIUM GROUNDWATER ISOPLETH NOVEMBER 2024

ARCADIS

FIGURE 10

XREFS:
REP-X-SITE
REP-X-RBL

IMAGES:
Arcadis Logo.PNG

PLOTSTYLETABLE: ---- PLOTTED: 2/12/2025 2:00 PM BY: DAVIS, KATHI

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-89999699-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F10-DISSOLVED CHROMIUM 2024 NOV.dwg LAYOUT: 10 SAVED: 2/12/2025 2:00 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---

LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- 13 — HEXAVALENT CHROMIUM ISOPLETH (DASHED WHERE INFERRED)
- (65) — HEXAVALENT CHROMIUM CONCENTRATION
- (10 U) — NOT DETECTED; CORRESPONDING VALUE IS REPORTING LIMIT

NOTES:

1. **SOURCE:** ©2024 Microsoft Corporation © Maxar ©CNES (2024) Distribution Airbus DS
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.
3. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER.

0 300' 600'

GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

FILTERED HEXAVALENT CHROMIUM GROUNDWATER ISOPLETH NOVEMBER 2024

ARCADIS

FIGURE 11

C:\Users\ktavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F11-HEX ISOPLETH NOV 2024.dwg LAYOUT: 11 SAVED: 2/12/2025 12:22 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 2/12/2025 12:22 PM BY: DAVIS, KATH
XREFS:
REP-X-RBL
REP-X-SITE
IMAGES:
Arcadis Logo.PNG

LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- CHAIN LINK FENCE
- MODELED EXTENT OF BENZENE BEFORE MEETING GROUNDWATER MEDIUM-SPECIFIC CONCENTRATION
- MODELED EXTENT OF DISSOLVED LEAD BEFORE MEETING GROUNDWATER MEDIUM-SPECIFIC CONCENTRATION
- MODELED EXTENT OF HEXAVALENT CHROMIUM BEFORE MEETING GROUNDWATER MEDIUM-SPECIFIC CONCENTRATION
- MODELED EXTENT OF NAPHTHALENE BEFORE MEETING GROUNDWATER MEDIUM-SPECIFIC CONCENTRATION

NOTES:

1. MONITORING WELL LOCATIONS SURVEYED BY DPK ENGINEERING, MONITORING WELL LOCATION MAP, DATED 04/04/2021, ELECTRONIC FILE 22-9519 MW00 2022-04-06.
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.
3. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER.

SOURCE:
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0 100' 200'
GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

FATE AND TRANSPORT MODELING RESULTS

ARCADIS

FIGURE
12

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F12-FATE-TRANSPORT.dwg LAYOUT: 12 SAVED: 2/7/2025 10:29 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 2/7/2025 10:29 AM BY: DAVIS, KATHI
IMAGES: Arcadis Logo.PNG
XREFS: REP-X-SITE REP-X-RBL

LEGEND:

- SURFACE WATER SAMPLE - PADEP & ARCADIS
- SURFACE WATER SAMPLE - ARCADIS

NOTES:

1. MONITORING WELL LOCATIONS SURVEYED BY DPK ENGINEERING, MONITORING WELL LOCATION MAP, DATED 04/04/2021, ELECTRONIC FILE 22-9519 MW00 2022-04-06.
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.
3. SW-1 WAS NOT SAMPLED WITH THE PADEP. SW-1 SAMPLED IN APRIL 2024, DEP51-W5 IN JULY/AUGUST 2024.

SOURCE:
©Microsoft Corporation ©Maxar ©CNES (2021) Distribution Airbus DS

0 200' 400'
GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

PADEP SURFACE WATER SAMPLING LOCATIONS - 2024

ARCADIS

FIGURE
13

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F13-SURFACE WATER SAMPLES.dwg LAYOUT: 13 SAVED: 2/7/2025 10:32 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 2/7/2025 10:32 AM BY: DAVIS, KATHI
XREFS:
REP-X-RBL
REP-X-SITE
IMAGES:
Arcadis Logo.PNG

LEGEND:

- SOIL BORING (ARCADIS - OCTOBER 2021)
- SAMPLING LOCATION - PIPE (STANTEC - 2021)
- SAMPLING LOCATION - TANK PERIMETER (STANTEC - 2021)
- SAMPLING LOCATION - TANK BOTTOM (STANTEC - 2021)
- SOIL BORING (ARCADIS - MARCH 2023)
- SOIL BORING (ARCADIS - AUGUST 2024)
- MONITORING WELL
- TEMPORARY WELL
- YELLOW — LOCATION EXCEEDS SOIL MEDIUM-SPECIFIC CONCENTRATION (MSC) FOR LEAD
- RED — LOCATION EXCEEDS SOIL MSC FOR BENZENE
- ORANGE — LOCATION EXCEEDS SOIL MSC FOR NAPHTHALENE
- BLUE — LOCATION EXCEEDS SOIL MSC FOR BIPHENYL AND BIS(2-CHLOROETHYL)ETHER
- GREEN — LOCATION EXCEEDS PADEP SOIL MSC FOR HEXAVALENT CHROMIUM
- TEAL — LOCATION EXCEEDS PADEP SOIL MSC FOR TOTAL CHROMIUM
- SITE BOUNDARY
- RAILROAD
- FENCE
- BARTRAM'S GARDEN MILE TRAIL

BARTRAM'S GARDEN MILE TRAIL

PROPOSED BUILDING FOOTPRINT

1-2 FOOT FILL SIDE

8.5 FOOT FILL SIDE

FILL SIDE

CUT SIDE

CUT

CUT SIDE

FILL SIDE

TANK CONTAINMENT AREA #1

TANK CONTAINMENT AREA #2

TANK CONTAINMENT AREA #3

PROPERTY BOUNDARY

PROPOSED LIMIT OF DISTURBANCE

NOTES:

1. MONITORING WELL LOCATIONS SURVEYED BY DPK ENGINEERING, MONITORING WELL LOCATION MAP, DATED 04/04/2021, ELECTRONIC FILE 22-9519 MW00 2022-04-06.
2. STANTEC SAMPLING LOCATIONS HAVE BEEN DIGITIZED FROM: PROPOSED AST CLOSURE ASSESSMENT SOIL SAMPLE LOCATIONS, FIGURES 2 THROUGH 6, PREPARED BY STANTEC. SCALE IS APPROXIMATE.
3. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.
4. ARCADIS: ARCADIS, U.S., INC.
5. AST: ABOVEGRADE STORAGE TANK
6. PADEP: PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
7. STANTEC: STANTEC CONSULTING SERVICES, INC.

SOURCE:

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0 80' 160'

GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

AREAS OF CUT AND FILL

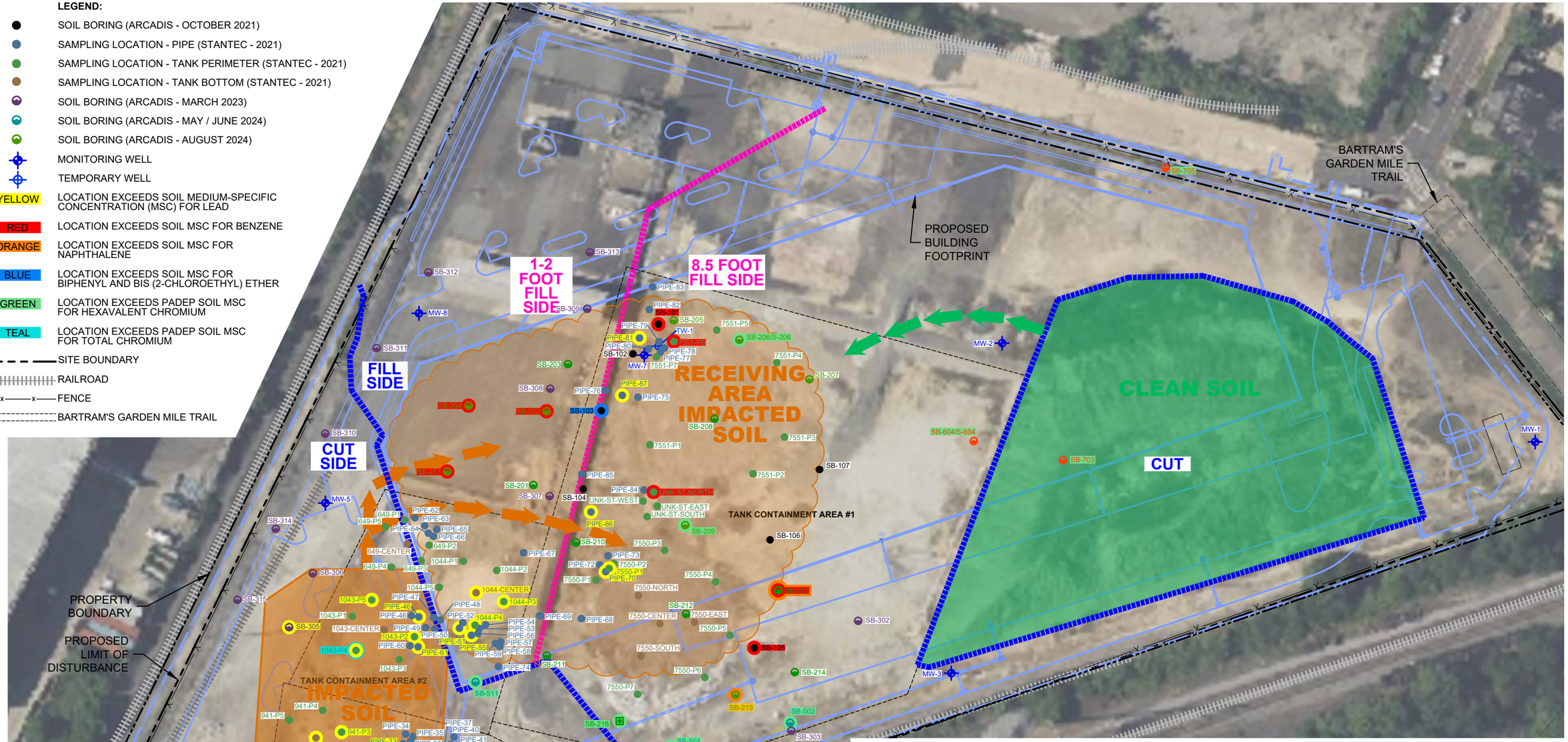
ARCADIS

FIGURE 14

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999998-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F14-F16-AREAS OF EARTHWORK.dwg LAYOUT: 14 SAVED: 2/7/2025 10:49 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 2/7/2025 10:49 AM BY: DAVIS, KATHI
XREFS: X-P-LANDSCAPING REP-X-RBL REP-X-SITE
IMAGES: Arcadis Logo.PNG

LEGEND:

- SOIL BORING (ARCADIS - OCTOBER 2021)
- SAMPLING LOCATION - PIPE (STANTEC - 2021)
- SAMPLING LOCATION - TANK PERIMETER (STANTEC - 2021)
- SAMPLING LOCATION - TANK BOTTOM (STANTEC - 2021)
- SOIL BORING (ARCADIS - MARCH 2023)
- SOIL BORING (ARCADIS - MAY / JUNE 2024)
- SOIL BORING (ARCADIS - AUGUST 2024)
- MONITORING WELL
- TEMPORARY WELL
- YELLOW — LOCATION EXCEEDS SOIL MEDIUM-SPECIFIC CONCENTRATION (MSC) FOR LEAD
- RED — LOCATION EXCEEDS SOIL MSC FOR BENZENE
- ORANGE — LOCATION EXCEEDS SOIL MSC FOR NAPHTHALENE
- BLUE — LOCATION EXCEEDS SOIL MSC FOR BIPHENYL AND BIS (2-CHLOROETHYL) ETHER
- GREEN — LOCATION EXCEEDS PADEP SOIL MSC FOR HEXAVALENT CHROMIUM
- TEAL — LOCATION EXCEEDS PADEP SOIL MSC FOR TOTAL CHROMIUM
- SITE BOUNDARY
- RAILROAD
- FENCE
- BARTRAM'S GARDEN MILE TRAIL



NOTES:

1. MONITORING WELL LOCATIONS SURVEYED BY DPK ENGINEERING, MONITORING WELL LOCATION MAP, DATED 04/04/2021, ELECTRONIC FILE 22-9519 MW00 2022-04-06.
2. STANTEC SAMPLING LOCATIONS HAVE BEEN DIGITIZED FROM: PROPOSED AST CLOSURE ASSESSMENT SOIL SAMPLE LOCATIONS, FIGURES 2 THROUGH 6, PREPARED BY STANTEC. SCALE IS APPROXIMATE.
3. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.
4. ARCADIS: ARCADIS U.S., INC.
5. AST: ABOVEGROUND STORAGE TANK
6. PADEP: PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
7. STANTEC: STANTEC CONSULTING SERVICES, INC.

SOURCE:

©Microsoft Corporation ©Maxar ©CNES (2023) Distribution Airbus DS

0 80' 160'

GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

PROPOSED SOIL MOVEMENT DURING REDEVELOPMENT

ARCADIS

FIGURE 15

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-89999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F14-F16-AREAS OF EARTHWORK.dwg LAYOUT: 15 SAVED: 2/7/2025 10:49 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 2/7/2025 10:49 AM BY: DAVIS, KATHI
XREFS: X-P-LANDSCAPING REP-X-RBL REP-X-SITE
IMAGES: Arcadis Logo.PNG

LEGEND:

- SOIL BORING (ARCADIS - OCTOBER 2021)
- SAMPLING LOCATION - PIPE (STANTEC - 2021)
- SAMPLING LOCATION - TANK PERIMETER (STANTEC - 2021)
- SAMPLING LOCATION - TANK BOTTOM (STANTEC - 2021)
- SOIL BORING (ARCADIS - MARCH 2023)
- SOIL BORING (ARCADIS - MAY / JUNE 2024)
- SOIL BORING (ARCADIS - AUGUST 2024)
- MONITORING WELL
- TEMPORARY WELL
- YELLOW — LOCATION EXCEEDS SOIL MEDIUM-SPECIFIC CONCENTRATION (MSC) FOR LEAD
- RED — LOCATION EXCEEDS SOIL MSC FOR BENZENE
- ORANGE — LOCATION EXCEEDS SOIL MSC FOR NAPHTHALENE
- BLUE — LOCATION EXCEEDS SOIL MSC FOR BIPHENYL AND BIS (2-CHLOROETHYL) ETHER
- GREEN — LOCATION EXCEEDS PADEP SOIL MSC FOR HEXAVALENT CHROMIUM
- TEAL — LOCATION EXCEEDS PADEP SOIL MSC FOR TOTAL CHROMIUM
- SITE BOUNDARY
- RAILROAD
- FENCE
- BARTRAM'S GARDEN MILE TRAIL

PROPERTY BOUNDARY

PROPOSED LIMIT OF DISTURBANCE

PROPOSED BUILDING FOOTPRINT

BARTRAM'S GARDEN MILE TRAIL

NOTES:

1. MONITORING WELL LOCATIONS SURVEYED BY DPK ENGINEERING, MONITORING WELL LOCATION MAP, DATED 04/04/2021, ELECTRONIC FILE 22-9519 MW00 2022-04-06.
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7. STANTEC: STANTEC CONSULTING SERVICES, INC.

SOURCE:

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ENGINEERING CONTROLS:

- BUILDING SLAB
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- LANDSCAPED AREAS

0 80' 160'

GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

PROPOSED ENGINEERING CONTROLS

ARCADIS

FIGURE 16

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV2025\01-DWG\REP-F14-F16-AREAS OF EARTHWORK.dwg LAYOUT: 16 SAVED: 2/7/2025 10:49 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 2/7/2025 10:50 AM BY: DAVIS, KATHI
XREFS: X-P-LANDSCAPING REP-X-RBL REP-X-STE
IMAGES: Arcadis Logo.PNG

Appendix A

Notices and Correspondence

Appendix A-1: Act 2 and Storage Tank Program Correspondences

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

February 22, 2022

Mr. Max Ryan
Alliance 51st Street LLC
40 Morris Avenue, Suite 230
Bryn Mawr, PA 19010

Re: Receipt of Notice of Intent to Remediate
Statewide Health Standard
Alliance 51st Street
eFACTS PF No. 855927
eFACTS Activity No. 57365
1646 South 51st Street
City of Philadelphia
Philadelphia County

Dear Mr. Ryan:

This letter acknowledges receipt of your Notice of Intent to Remediate (NIR) on February 14, 2022, pertaining to the subject property and submitted in accordance with the Land Recycling and Environmental Remediation Standards Act (Act 2). The procedures set forth in Act 2 must be followed in order for this site to qualify for the liability protection provided by the Act. If in the future you choose to select either the Site-Specific Standard or choose to use the special industrial area provisions in Subchapter E of the Chapter 250 regulations, you will need to resubmit the NIR and follow the requirements relating to public involvement plan coordination with the local municipality. Please contact this office if you need advice on these requirements.

A Final Report, accompanied by the required fee, should be submitted to the Department of Environmental Protection (DEP) upon completion of remediation. Include documentation verifying compliance with the public notification requirements.

Additional technical and program information can be found at www.dep.pa.gov, under Business>Land>Land Recycling. Also, please refer to the Land Recycling checklists which are helpful in assuring reports are complete before submittal. DEP uses the checklists to perform administrative and technical completeness reviews when plans and/or reports are submitted. It is strongly encouraged to include the appropriate completed checklist with your Final Report submission. Land Recycling checklists can also be found at the website under 'Forms, Checklists & Notifications' link.

Please refer to the enclosed Standard Attachment for considerations of other programs which may be applicable to this property.

Rebecca Flannery is the project officer assigned to your project and will be working with you towards the remediation of this property. Frequent contact is encouraged between your representatives and our staff. If you have any questions or need further clarifications of our procedures, please contact the project officer by email at rflannery@pa.gov or by telephone at 484.250.5779.

Sincerely,

C. David Brown, P.G. Digitally signed by C. David Brown, P.G.
Date: 2022.02.22 11:58:38 -05'00'

C. David Brown, P.G.
Professional Geologist Manager
Environmental Cleanup and Brownfields

Enclosure: Standard Attachment

cc: Philadelphia Department of Health
City of Philadelphia
Mr. Brunt, PE (Arcadis US, Inc.)
Ms. Flannery
Ms. Bass
Re 30 (cb22ecb) 855927-02222022-NIR

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

February 2, 2023

Max Ryan
Alliance 51st Street LLC
40 Morris Avenue, Suite 230
Bryn Mawr, PA 19010

Re: Site Characterization Report Disapproval
Storage Tank System Release 8/17/21
Facility ID No. 51-10420
Incident No. 56662
51st Street Terminal
1630 South 51st Street
City of Philadelphia

Dear Mr. Ryan:

The Department of Environmental Protection (DEP) has reviewed the November 3, 2022 document titled Site Characterization Report for the release referenced above. This document was prepared by Arcadis and submitted as a Site Characterization Report (SCR) as required by 25 Pa. Code Section 245.310(a). You selected the site-specific standard as the remediation standard in soil and groundwater.

In accordance with 25 Pa. Code Section 245.310(c), DEP disapproves the SCR based on the following:

1. The extent of soil contamination was not adequately characterized in accordance with 25 Pa. Code Section 245.309(b)(4) as required by 25 Pa. Code Section 245.310(a). Soil sample PIPE-29 has not been delineated for the benzene exceedance during the AST closure.

2. The extent of groundwater contamination was not adequately characterized in accordance with 25 Pa. Code Section 245.309(b)(4) as required by 25 Pa. Code Section 245.310(a). Lead (Pb) in groundwater has not been fully delineated in the vicinity of MW-9.

3. Results of a public and private well survey were not included in the SCR in accordance with 25 Pa Code 245.310(a)(19) There was no mention that a public and/or private well survey was performed.

4. An ecological receptor evaluation was not performed in accordance with 25 Pa. Code Section 245.310(a)(28). There were no results included in the SCR which confirmed there was an ecological receptor survey performed.

Based on this disapproval, you should correct the deficiencies and submit a revised SCR in keeping with 25 Pa. Code Section 245.310(c)(4).

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800.654.5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at http://ehb.courtapps.com or by contacting the Secretary to the Board at 717.787.3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717.787.3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

If you have any questions, please contact Rebecca Flannery by email at rflannery@pa.gov or by telephone at 484.250.5779.

Sincerely,

Ragesh R. Patel

Ragesh R. Patel
Regional Manager
Environmental Cleanup and Brownfields

cc: Philadelphia Department of Public Health (via email)
City of Philadelphia L&I(via email)
Mr. Brunt, Arcadis (via email)
Mr. Staron (via email)
Ms. Flannery (via email)
Mr. Herrick, Esq. (via email)

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

September 27, 2023

Max Ryan
Alliance 51st Street LLC
40 Morris Avenue, Suite 230
Bryn Mawr, PA 19010

Re: Site Characterization Report Approval
Storage Tank System Release August 17, 2021
Facility ID No. 51-10420
Incident No. 56662
51st Street Terminal
1630 South 51st Street
City of Philadelphia

Dear Mr. Ryan:

The Department of Environmental Protection (DEP) has reviewed the June 27, 2023 document titled "Site Characterization Report" amended September 26, 2023 for the release referenced above. This document was prepared by Arcadis and submitted as a Site Characterization Report (SCR) as required by 25 Pa. Code Section 245.310(a). You selected the site-specific standard as the remediation standard for soil.

DEP approves the SCR in accordance with 25 Pa. Code Section 245.310(c)(1).

25 Pa. Code Section 245.311 requires that a Remedial Action Plan (RAP) be submitted within 45 days of approval of the SCR. Failure to submit a RAP by that date may result in enforcement action by DEP.

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457
Harrisburg, PA 17105-8457

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If you have any questions, please contact Rebecca Flannery by email at rflannery@pa.gov or by telephone at 484.250.5779.

Sincerely,

Ragesh R. Patel

Ragesh R. Patel
Regional Manager
Environmental Cleanup and Brownfields

cc: Philadelphia Department of Public Health (via email)
City of Philadelphia L&I(via email)
Mr. Brunt, Arcadis (via email)
Mr. Staron (via email)
Ms. Flannery (via email)

From: Patel, Ragesh <rapatel@pa.gov>
Sent: Wednesday, September 27, 2023 10:48 AM
To: mryan@alliancehsp.com; Brunt, Larry <Larry.Brunt@arcadis.com>; LeighAnne.Rainford@phila.gov; Construction.CentralEast@phila.gov
Cc: Staron, Richard <rstaron@pa.gov>; Flannery, Rebecca <rflannery@pa.gov>
Subject: 51-10420, 51st Street Terminal, SCR approval, 1630 South 51st Street, City of Philadelphia

Dear Mr. Ryan,

Attached is the Site Characterization Report (SCR) approval letter for the 51st Street Terminal (1630 South 51st Street, City of Philadelphia) regulated storage tank site, facility ID No. 51-10420. DEP is sending this letter electronically. We will not be sending a separate hardcopy letter.

Ragesh

Ragesh R Patel (he/him/his) | Environmental Program Manager
Department of Environmental Protection | Southeast Regional Office
2 E. Main Street | Norristown, PA 19401
Phone: 484.250.5716 | Fax: 484.250.5961
www.dep.pa.gov

PRIVILEGED AND CONFIDENTIAL COMMUNICATION
The information transmitted is intended only for the person or entity to whom it is addressed and may contain confidential and/or privileged material. Any use of this information other than by the intended recipient is prohibited. If you receive this message in error, please send a reply e-mail to the sender and delete the material from any and all computers. Unintended transmissions shall not constitute waiver of the attorney-client or any other privilege.

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

February 22, 2024

Max Ryan
Alliance 51st Street LLC
40 Morris Avenue, Suite 230
Bryn Mawr, PA 19010
Email: mryan@alliancehsp.com

Re: Remedial Action Plan Approval
Storage Tank System Release August 17, 2021
Facility ID No. 51-10420
Incident No. 56662
51st Street Terminal
1630 South 51st Street
City of Philadelphia

Dear Mr. Ryan:

The Department of Environmental Protection (DEP) has reviewed the November 2023 document titled Remedial Action Plan for the release referenced above. This document was prepared by Arcadis and submitted as a Remedial Action Plan (RAP) as required by 25 Pa. Code Section 245.311. You selected the site-specific standard as the remediation standard for soil and groundwater.

DEP approves the RAP in accordance with 25 PA Code Section 245.311(c)(1).

25 Pa. Code Section 245.312(a) requires that remedial action shall be implemented upon approval of the RAP according to the schedule contained in the RAP. Remedial action should, therefore, commence immediately upon receipt of this letter and proceed in accordance with the schedule in the RAP until the selected remediation standard is attained.

Remedial Action Progress Reports (RAPRs) must be submitted to DEP in accordance with 25 Pa. Code Section 245.312(b-d) by the 30th day of the month following the end of each quarter (April 30, July 30, October 30 and January 30). The final RAPR is submitted as part of the Remedial Action Completion Report. Your first RAPR should be submitted no later than June 21, 2024.

Failure to implement remedial action or submit complete progress reports in accordance with the schedule outlined above may result in enforcement action by DEP. If you wish to modify any part of this Remedial Action Plan or select a new remediation standard, you must prepare and submit a new or modified Remedial Action Plan to DEP in accordance with 25 Pa. Code Section 245.312(e).

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457
Harrisburg, PA 17105-8457

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If you have any questions, please contact Rebecca Flannery by email at rflannery@pa.gov or by telephone at 484.250.5779.

Sincerely,

Ragesh R. Patel

Ragesh R. Patel
Regional Manager
Environmental Cleanup and Brownfields

cc: Philadelphia Department of Public Health
City of Philadelphia L&I
Mr. Brunt, Arcadis
Mr. Staron
Ms. Flannery
OnBase

FedEx Tracking: 777628043388

ARCADIS

Municipal Manager
City of Philadelphia

County Manager
Philadelphia County

Municipal Service Building
1401 John F. Kennedy Blvd
Philadelphia, PA 19107

Arcadis U.S., Inc.
2100 Georgetown Drive
Suite 402
Sewickley
Pennsylvania 15143
Phone: 724 742 9180
www.arcadis.com

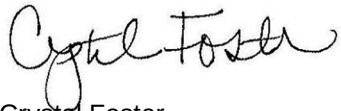
Date: July 26, 2024
Our Ref: 30108678
Subject: Notice of Intent to Remediate
1646 South 51st Street
City of Philadelphia
Philadelphia County, Pennsylvania 19143

Dear Municipal and County Managers,

The Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. 4, No. 1995-2 (the "Act"), 35 P.S. §§ 6026.101 et seq., requires that a Notice of Intent to Remediate (NIR) be provided to the county and municipality in which a site entering the Act 2 program is located. Based on our records, both the City and County of Philadelphia operate from the same address at 1401 John F. Kennedy Blvd, Philadelphia, PA. In accordance with the provisions of the Act and on behalf of Alliance 51st Street LLC (Alliance), Arcadis U.S., Inc. is formally notifying you of Alliance's intent to remediate the subject site. A copy of the revised Notice of Intent to Remediate (NIR), which is being sent to the Pennsylvania Department of Environmental Protection (PADEP), Southeast Regional Office, is enclosed.

A notice of NIR submittal will also be published in the Philadelphia Inquirer newspaper on July 29, 2024, which serves the City of Philadelphia. Publication of this notice in the local newspaper initiates a 30-day public and municipal comment period. During this time, you may request to become involved in the development of the remediation plans for the Site. If you wish to become involved in this project or if you have any questions or need additional information regarding the proposed remediation, please feel free to contact me.

Sincerely,
Arcadis U.S., Inc.



Crystal Foster
Senior Geologist
Email: crystal.foster@arcadis.com
Direct Line: 724.934.9529

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

NOTICE OF INTENT TO REMEDIATE

For DEP Use Only
PF # ____
Rem ID # ____

Date: July 23, 2024 NIR Status: ☐ New ☒ Revised

Act 1995-2 requires four general information items to be included in the NIR: the general location, listing of contaminants, intended use of property, and proposed remediation measures. In addition, indicate the standard(s) to be obtained and attach a scaled site map (if available). Certain project amendments or changes will require submission of a revised NIR, a new public notice, and a new notification to the municipality. Changes to information marked by (**) or (††) indicate when a new NIR and new public and municipal notices are needed. DEP should also be notified of any significant changes to the initial NIR submission, including the change of future use of the property, contaminants added or removed, change of standards from site-specific to background or Statewide health, any change in the media being investigated, or change of any contact information.

Property Name Alliance 51st Street.

Former Name(s)/AKA 51st Street Terminal, PBF Logistics PRoducts Terminal, Plains Products Terminals, Allied Oil Company, Hess Oil & Chemical Corporation

Address/Location 1646 South 51st Street

City Philadelphia Zip Code 19143

**Municipality(s) Philadelphia County(ies) Philadelphia

Tax Parcel ID# (if known) 884217325

Latitude 39 º (deg). 56 ‘ (min) 08 “ (sec)

Longitude -75 º (deg). 12 ‘ (min) 34 “ (sec)

Horizontal Collection Method EMAP

Horizontal Reference Datum NAD83 Reference Point CNTAR

☐ **Wish to participate in the DEP/EPA One Cleanup Program.

Contact the Land Recycling Program Manager for details at landrecycling@pa.gov.

EPA ID#, if known PAD069021830

DEP ID#(s), if known 452917

(i.e., eFACTs primary facility ID#, storage tank facility ID#, water quality permit #, etc.)

Date Release Occurred (if known) ____

Date each municipality was notified of any plan or report submitted under any remediation standard
July 29, 2024

** A change in municipality, the addition of a new municipality, or deciding to participate in the DEP/EPA One Cleanup Program requires a new NIR to be submitted with new public and municipal notifications.

Place the newspaper name and date that your notice of your plan/report submission was published
Philadelphia Inquirer; July 29, 2024

Contamination, Land Usage, and Proposed Remediation Section

Provide a brief description of the site contamination, to the extent known, in plain language (e.g., fuel oil spill, historical chemical industrial area, etc.), the current and intended future use of the property in the box below.

Organic compounds and lead are primarily associated with the former use of the property as a fuel oil terminal from approximately 1951- 2021 by companies including Allied Oil, Hess Oil & Chemical, Plains Products Terminals and PBF Logistics (PBF). PBF recently closed, demolished, and removed the aboveground storage tanks (ASTs). Soil borings in the former AST and piping area identified exceedances of the non-residential (NR) direct contact and/or soil to groundwater MSCs for volatile organic compounds, semivolatile organic componds, and lead. Groundwater samples from temporary wells had exceedances of the NR used aquifer GW MSCs for benzene, 1,2,4-trimethylbenzene, and lead. Hexavalent chromium is present due to the historic placement of fill onsite in the early 1900s. The site is intended for non-residential future use.

Provide a general description of proposed remediation measures.

The groundwater and soils at the site will be further characterized. The remedy for this site is expected to include, but not be limited to, implementation of a monitored natural attenuation program for groundwater and the filing of an environmental covenant.

Standards Selection Section

Check all the boxes that apply for the appropriate contaminant groups according to the standard(s) and media of the remediation to be performed.

NOTE: Either the site-specific standard or a special industrial area requires a 30-day public and municipal comment period.

Contaminant Groups	Background		Statewide Health–Residential		Statewide Health–Non-Residential		††Site-Specific Standard		††Special Industrial Area	
	Soil	GW	Soil	GW	Soil	GW	Soil	GW	Soil	GW
Aviation Gasoline	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Diesel Fuel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 2	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 4	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 6	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Jet Fuel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Leaded Gasoline	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
New Motor Oil	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Unleaded Gasoline	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Used Motor Oil	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Chlorinated Solvents	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Inorganics	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
Lead	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
MTBE	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
Other Organics	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
PAHs	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
PCBs	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Pesticides	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
PFAS	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

GW: groundwater

†† Changing the selected standard from either background or Statewide health to the site-specific standard, changing to a combination of standards that includes the site-specific standard, or choosing the special industrial area designation requires a new NIR submission with new public and municipal notifications.

Please list individual contaminants here, by environmental medium and cleanup standard (optional):

See attached tables

Property Owner, Remediator/Participant, and Consultant
Complete the form below for each recipient obtaining a release of liability upon approval of the final report. Attach additional sheets as necessary.

Property Owner
Contact Person/Title Max Ryan/Director of Development & Construction eFACTs Client ID(If Known) _____
Phone Number (856) 699-1105 Email Address mryan@allianceshp.com
Company Name Alliance 51st Street, LLC EIN or Federal ID # _____
Address (street, city, state, zip) 40 Morris Ave, Ste 230, Bryn Mawr, PA 19010
Client Type (choose from list below) Limited Liability company

Client Types:

Association/Organization		
Authority	Limited Liability Partnership	Partnership-General
County	Municipality	Partnership-Limited
Estate/Trust	Non-Pennsylvania	Pennsylvania Corporation
Federal Agency	Government	School District
Individual	Other (Government)	Sole Proprietorship
Limited Liability company	Other (Non-Government)	State Agency

Consultant
Contact Person/Title Lawrence G. Brunt/P.E.(Prinicpal Engineer) Email Address larry.brunt@arcadis.com
Phone Number (908) 526-1000 Company Name Arcadis US, Inc.
Address (street, city, state, zip) 1 Harvard Way, Ste 5, Hillsborough, NJ 08844

Other Participant (Remediator)
Contact Person/Title _____
Relationship to Site _____
(e.g. remediator, participant in cleanup if other than owner, etc.)
Phone Number _____ Email Address _____
Company Name _____ EIN or Federal ID # _____
Address (street, city, state, zip) _____

Preparer of Notice of Intent to Remediate
Name Anthony Reitano, Esq. Title Attorney
Phone Number (908) 647-1022 Email Address areitano@heroldlaw.com
Company Name Herold Law, P.A.
Address (street, city, state, zip) 25 Independence Blvd., Warren, New Jersey, 07059

Table 1
Constituents of Concern in Soil
Alliance 51st Street LLC
1646 South 51st Street
Phildelphia, Pennsylvania

Chemical Name	CAS Number
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	95-63-6
Benzene	71-43-2
Cyclohexane	110-82-7
Ethylbenzene	100-41-4
Isopropylbenzene	98-82-8
Methyl cyclohexane	108-87-2
o-Xylene	95-47-6
p/m-Xylene	179601-23-1
Toluene	108-88-3
Xylenes, total	1330-20-7
1,2-Dichlorobenzene	95-50-1
1,4-Dichlorobenzene	106-46-7
Acetone	67-64-1
Methyl tert-butyl ether	1634-04-4
Styrene	100-42-5
Naphthalene	91-20-3
1,3,5-Trimethylbenzene	108-67-8
2-Butanone	78-93-3
1,2-Dichloroethane	107-06-2
Methyl acetate	79-20-9
Semivolatile Organic Compounds	
2-Methylnaphthalene	91-57-6
Acenaphthene	83-32-9
Anthracene	120-12-7
Benzo(a)anthracene	56-55-3
Benzo(a)pyrene	50-32-8
Benzo(b)fluoranthene	205-99-2
Benzo(ghi)perylene	191-24-2
Benzo(k)fluoranthene	207-08-9
Biphenyl	92-52-4
Chrysene	218-01-9
Dibenzofuran	132-64-9
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno(1,2,3-cd)pyrene	193-39-5
Naphthalene	91-20-3
Phenanthrene	85-01-8
Pyrene	129-00-0
Bis(2-chloroethyl)ether	111-44-4
Inorganics	
Chromium, total	7440-47-3
Hexavalent Chromium	18540-29-9
Lead, total	7439-92-1

Table 2
Constituents of Concern in Groundwater
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

Chemical Name	CAS Number
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	95-63-6
Benzene	71-43-2
Chloromethane	74-87-3
Cyclohexane	110-82-7
Isopropylbenzene	98-82-8
o-Xylene	95-47-6
p/m-Xylene	179601-23-1
Toluene	108-88-3
Xylenes, total	1330-20-7
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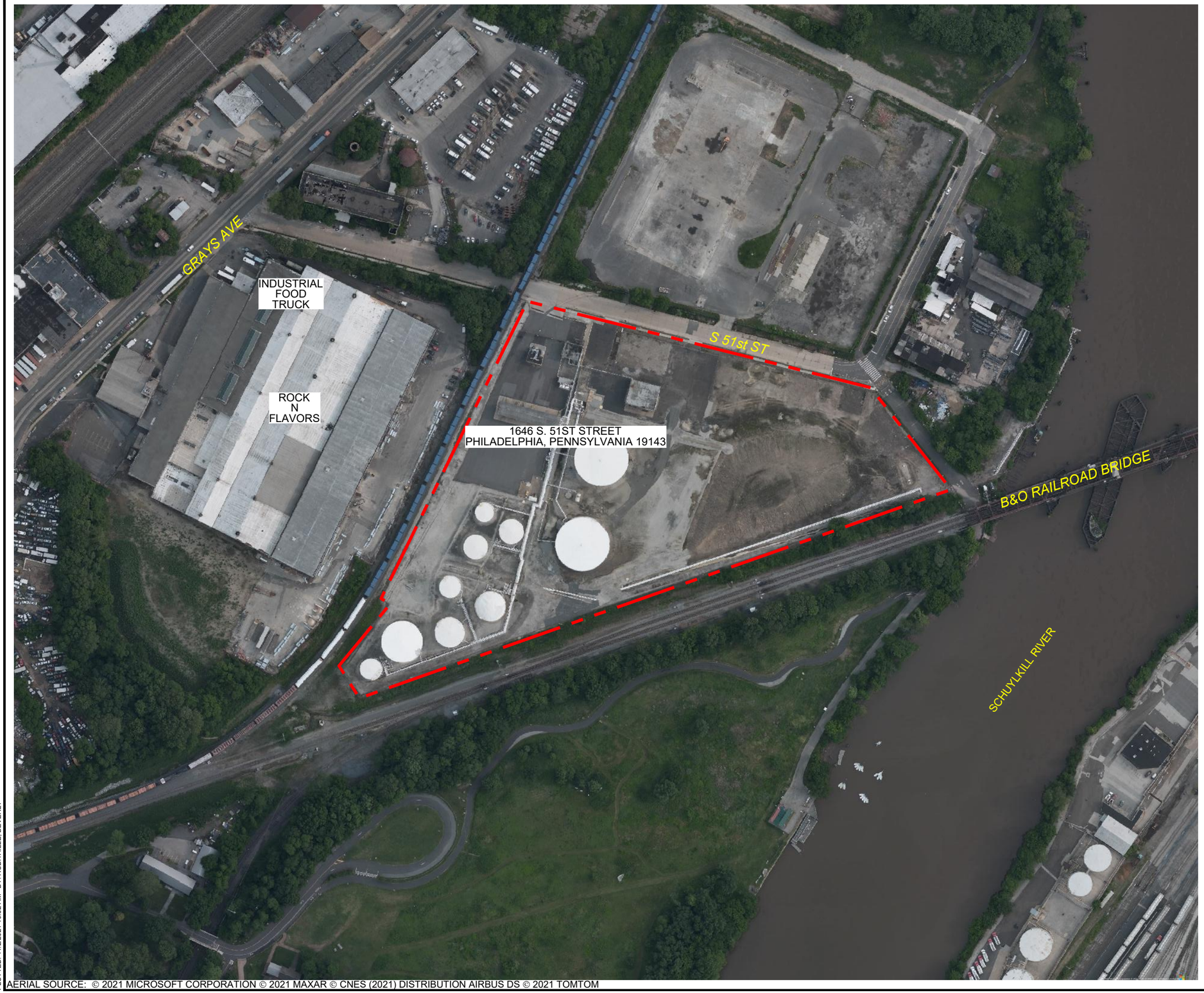
Ethylbenzene	100-41-4
Methyl tert-butyl ether	1634-04-4
1,3,5-Trimethylbenzene	108-67-8
Acetone	67-64-1
Carbon disulfide	75-15-0
2-Butanone	78-93-3
1,2-Dichloroethane	107-06-2
Vinyl chloride	75-01-4
1,2-Dichloroethene, total	540-59-0
cis-1,2-Dichloroethene	156-59-2
1,2-Dichlorobenzene	95-50-1
Chlorobenzene	108-90-7
1,4-Dichlorobenzene	106-46-7
1,3-Dichlorobenzene	541-73-1
2-Hexanone	591-78-6
4-Methyl-2-pentanone	108-10-1
Inorganics	
Lead, dissolved	7439-92-1
Chromium, dissolved	7440-47-3
Chromium, total	7440-47-3
Hexavalient Chromium	18540-29-9



AERIAL SOURCE: © 2021 MICROSOFT CORPORATION © 2021 MAXAR © CNES (2021) DISTRIBUTION AIRBUS DS © 2021 TOMTOM

LEGEND:

PROPERTY BOUNDARY

Aboveground storage tanks have been removed.

0 200' 400'

GRAPHIC SCALE

ALLIANCE HP INVESTMENTS, LLC
1646 S. 51ST STREET
PHILADELPHIA, PENNSYLVANIA

SITE PLAN

ARCADIS

FIGURE 1

CITY: CITY DIV/GROUP:ENVCAD DB:ENVCAD
C:\Users\barobla\OneDrive - ARCADIS\BIM 360 Docs\AUS-ALLIANCE HSP VENTURES-1646 S 51ST-PHILADELPHIA PENNSYLVANIA\2021\01-IN PROGRESS\01-DWG\GEN F01-F02 LOC AND SITE.dwg LAYOUT: 2 SAVED: 11/2/2021 10:52 AM PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 11/2/2021 10:52 AM BY: ROBITAILLE, BEVERLY

The Philadelphia Inquirer
100 S. INDEPENDENCE MALL W, STE 600, PHILADELPHIA, PA 19106

Affidavit of Publication

On Behalf of:
ARCADIS U S INC
2100 GEORGETOWN DR
SUITE 402
SEWICKLEY, PA 15143

STATE OF PENNSYLVANIA COUNTY OF PHILADELPHIA:

Before the undersigned authority personally appeared the undersigned who, on oath represented a and say: that I am an employee of The Philadelphia Inquirer, LLC, and am authorized to make this affidavit of publication, and being duly sworn, I depose and say:

1. The Philadelphia Inquirer, LLC is the publisher of the Philadelphia Inquirer, with its headquarters at 100 S. Independence Mall West, Suite 600, Philadelphia, PA 19106.
2. The Philadelphia Inquirer is a newspaper that which was established in in the year 1829, since which date said daily newspaper has been continuously published and distributed daily in the City of Philadelphia, count and state aforesaid.
3. The printed notice or publication attached hereto set forth on attached
hereto was published in all regular print editions of
The Philadelphia Inquirer on

Legal Notices

as published in **Inquirer Legals** in the issue(s) of:

7/29/2024

4. Under oath, I state that the following is true and correct, and that neither I nor The Philadelphia Inquirer, LLC have any is interest in the subject matter of the aforesaid notice or advertisement.

Helene Sweeney

Nancy S. Fisher
Notary Public

My Commission Expires:

Commonwealth of Pennsylvania - Notary Seal
Nancy S Fisher, Notary Public
Philadelphia County
My Commission Expires June 27, 2027
Commission Number 1433937

Ad No: 168597
Customer No: 105030

COPY OF ADVERTISEMENT

"Pursuant to the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. 4, No. 1995-2 (the "Act"), 35 P.S. §§ 6026.101 et seq., notice is hereby given that Alliance 51st Street LLC (Alliance) has submitted to the Pennsylvania Department of Environmental Protection (PADEP) a revised Notice of Intent to Remediate (NIR) for a site located at 1646 South 51st Street, in the City of Philadelphia, Philadelphia County, Pennsylvania. The site is currently vacant. Contaminants present in soil and groundwater are primarily associated with the historic use of the site as a petroleum terminal and filling of the site in the early 1900s. Contaminants present include volatile organic compounds, semivolatile organic compounds, and metals including lead, chromium, and hexavalent chromium. The NIR provides for additional investigative and/or remedial activities under the Act as necessary to obtain a relief of liability for any soil and groundwater contamination in accordance with a combination of Act 2 Statewide Health Standards and Site-Specific Standards. The proposed future use of the property will continue to be non-residential.

The Act provides for a 30-day public comment period for Site-Specific Standard remediations. The 30-day comment period is initiated with the publication of this notice. Until 30 days after this publication date, you may submit a request to Alliance to be involved in the development of the remediation and reuse plans for the site. You may also submit a request to Alliance during this 30-day comment period to develop and implement a public involvement plan. The address for comments is Alliance, c/o Arcadis U.S., Inc., **2100 Georgetown Drive, Suite 402, Sewickley, Pennsylvania 15143.** Copies of this request and any comments should also be submitted to the PADEP at **2 East Main Street, Norristown, Pennsylvania 19401."**

FedEx Tracking:

ARCADIS

Ms. Leigh Anne Rainford
Philadelphia Department of Public Health
Environmental Health Services
7801 Essington Avenue
Philadelphia, PA 19153

Arcadis U.S., Inc.
2100 Georgetown Drive
Suite 402
Sewickley
Pennsylvania 15143
Phone: 724 742 9180
www.arcadis.com

Date: July 30, 2024
Our Ref: 30108678
Subject: Notice of Intent to Remediate
1646 South 51st Street
City of Philadelphia
Philadelphia County, Pennsylvania 19143

Dear Ms. Rainford,

The Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. 4, No. 1995-2 (the "Act"), 35 P.S. §§ 6026.101 et seq., requires that a Notice of Intent to Remediate (NIR) be provided to the county and municipality in which a site entering the Act 2 program is located. In accordance with the provisions of the Act and on behalf of Alliance 51st Street LLC (Alliance), Arcadis U.S., Inc. is formally notifying you of Alliance's intent to remediate the subject site. A copy of the revised Notice of Intent to Remediate (NIR), which is being sent to the Pennsylvania Department of Environmental Protection (PADEP), Southeast Regional Office, is enclosed.

A notice of NIR submittal was published in the Philadelphia Inquirer newspaper on July 29, 2024, which serves the City of Philadelphia. Publication of this notice in the local newspaper initiates a 30-day public and municipal comment period. During this time, you may request to become involved in the development of the remediation plans for the Site. If you wish to become involved in this project or if you have any questions or need additional information regarding the proposed remediation, please feel free to contact me.

Sincerely,
Arcadis U.S., Inc.

Crystal Foster
Senior Geologist
Email: crystal.foster@arcadis.com
Direct Line: 724.934.9529

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

NOTICE OF INTENT TO REMEDIATE

For DEP Use Only
PF # ____
Rem ID # ____

Date: July 23, 2024 NIR Status: ☐ New ☒ Revised

Act 1995-2 requires four general information items to be included in the NIR: the general location, listing of contaminants, intended use of property, and proposed remediation measures. In addition, indicate the standard(s) to be obtained and attach a scaled site map (if available). Certain project amendments or changes will require submission of a revised NIR, a new public notice, and a new notification to the municipality. Changes to information marked by (**) or (††) indicate when a new NIR and new public and municipal notices are needed. DEP should also be notified of any significant changes to the initial NIR submission, including the change of future use of the property, contaminants added or removed, change of standards from site-specific to background or Statewide health, any change in the media being investigated, or change of any contact information.

Property Name Alliance 51st Street.

Former Name(s)/AKA 51st Street Terminal, PBF Logistics Products Terminal, Plains Products Terminals, Allied Oil Company, Hess Oil & Chemical Corporation

Address/Location 1646 South 51st Street

City Philadelphia Zip Code 19143

**Municipality(s) Philadelphia County(ies) Philadelphia

Tax Parcel ID# (if known) 884217325

Latitude 39 º (deg). 56 ‘ (min) 08 “ (sec)

Longitude -75 º (deg). 12 ‘ (min) 34 “ (sec)

Horizontal Collection Method EMAP

Horizontal Reference Datum NAD83 Reference Point CNTAR

☐ **Wish to participate in the DEP/EPA One Cleanup Program.

Contact the Land Recycling Program Manager for details at landrecycling@pa.gov.

EPA ID#, if known PAD069021830

DEP ID#(s), if known 452917

(i.e., eFACTs primary facility ID#, storage tank facility ID#, water quality permit #, etc.)

Date Release Occurred (if known) ____

Date each municipality was notified of any plan or report submitted under any remediation standard
July 29, 2024

** A change in municipality, the addition of a new municipality, or deciding to participate in the DEP/EPA One Cleanup Program requires a new NIR to be submitted with new public and municipal notifications.

Place the newspaper name and date that your notice of your plan/report submission was published
Philadelphia Inquirer; July 29, 2024

Contamination, Land Usage, and Proposed Remediation Section

Provide a brief description of the site contamination, to the extent known, in plain language (e.g., fuel oil spill, historical chemical industrial area, etc.), the current and intended future use of the property in the box below.

Organic compounds and lead are primarily associated with the former use of the property as a fuel oil terminal from approximately 1951- 2021 by companies including Allied Oil, Hess Oil & Chemical, Plains Products Terminals and PBF Logistics (PBF). PBF recently closed, demolished, and removed the aboveground storage tanks (ASTs). Soil borings in the former AST and piping area identified exceedances of the non-residential (NR) direct contact and/or soil to groundwater MSCs for volatile organic compounds, semivolatile organic componds, and lead. Groundwater samples from temporary wells had exceedances of the NR used aquifer GW MSCs for benzene, 1,2,4-trimethylbenzene, and lead. Hexavalent chromium is present due to the historic placement of fill onsite in the early 1900s. The site is intended for non-residential future use.

Provide a general description of proposed remediation measures.

The groundwater and soils at the site will be further characterized. The remedy for this site is expected to include, but not be limited to, implementation of a monitored natural attenuation program for groundwater and the filing of an environmental covenant.

Standards Selection Section

Check all the boxes that apply for the appropriate contaminant groups according to the standard(s) and media of the remediation to be performed.

NOTE: Either the site-specific standard or a special industrial area requires a 30-day public and municipal comment period.

Contaminant Groups	Background		Statewide Health–Residential		Statewide Health–Non-Residential		††Site-Specific Standard		††Special Industrial Area	
	Soil	GW	Soil	GW	Soil	GW	Soil	GW	Soil	GW
Aviation Gasoline	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Diesel Fuel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 2	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 4	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 6	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Jet Fuel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Leaded Gasoline	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
New Motor Oil	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Unleaded Gasoline	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Used Motor Oil	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Chlorinated Solvents	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Inorganics	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
Lead	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
MTBE	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
Other Organics	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
PAHs	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
PCBs	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Pesticides	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
PFAS	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

GW: groundwater

†† Changing the selected standard from either background or Statewide health to the site-specific standard, changing to a combination of standards that includes the site-specific standard, or choosing the special industrial area designation requires a new NIR submission with new public and municipal notifications.

Please list individual contaminants here, by environmental medium and cleanup standard (optional):

See attached tables

Property Owner, Remediator/Participant, and Consultant
Complete the form below for each recipient obtaining a release of liability upon approval of the final report. Attach additional sheets as necessary.

Property Owner
Contact Person/Title Max Ryan/Director of Development & Construction eFACTs Client ID(If Known) _____
Phone Number (856) 699-1105 Email Address mryan@allianceshp.com
Company Name Alliance 51st Street, LLC EIN or Federal ID # _____
Address (street, city, state, zip) 40 Morris Ave, Ste 230, Bryn Mawr, PA 19010
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County	Municipality	Partnership-Limited
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Consultant
Contact Person/Title Lawrence G. Brunt/P.E.(Prinicpal Engineer) Email Address larry.brunt@arcadis.com
Phone Number (908) 526-1000 Company Name Arcadis US, Inc.
Address (street, city, state, zip) 1 Harvard Way, Ste 5, Hillsborough, NJ 08844

Other Participant (Remediator)
Contact Person/Title _____
Relationship to Site _____
(e.g. remediator, participant in cleanup if other than owner, etc.)
Phone Number _____ Email Address _____
Company Name _____ EIN or Federal ID # _____
Address (street, city, state, zip) _____

Preparer of Notice of Intent to Remediate
Name Anthony Reitano, Esq. Title Attorney
Phone Number (908) 647-1022 Email Address areitano@heroldlaw.com
Company Name Herold Law, P.A.
Address (street, city, state, zip) 25 Independence Blvd., Warren, New Jersey, 07059

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1646 South 51st Street
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Biphenyl	92-52-4
Chrysene	218-01-9
Dibenzofuran	132-64-9
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Fluorene	86-73-7
Indeno(1,2,3-cd)pyrene	193-39-5
Naphthalene	91-20-3
Phenanthrene	85-01-8
Pyrene	129-00-0
Bis(2-chloroethyl)ether	111-44-4
Inorganics	
Chromium, total	7440-47-3
Hexavalent Chromium	18540-29-9
Lead, total	7439-92-1

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Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

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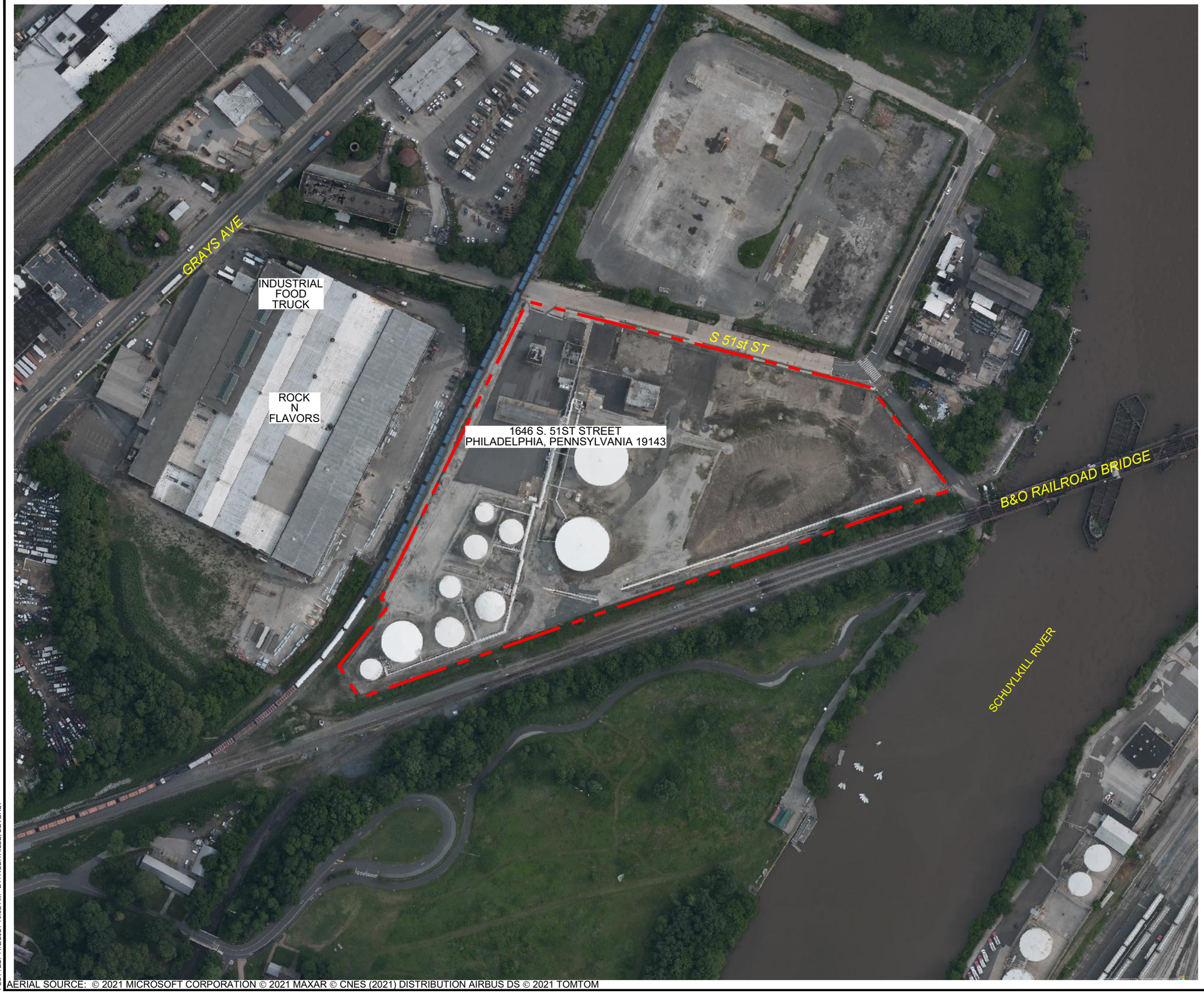
Inorganics	
Lead, dissolved	7439-92-1
Chromium, dissolved	7440-47-3
Chromium, total	7440-47-3
Hexavalient Chromium	18540-29-9



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LEGEND:

PROPERTY BOUNDARY

Aboveground storage tanks have been removed.

0 200' 400'

GRAPHIC SCALE

ALLIANCE HP INVESTMENTS, LLC
1646 S. 51ST STREET
PHILADELPHIA, PENNSYLVANIA

SITE PLAN

ARCADIS

FIGURE 1

CITY: CITY DIV/GROUP:ENVCAD DB:ENVCAD
C:\Users\barobla\OneDrive - ARCADIS\BIM 360 Docs\AUS-ALLIANCE HSP VENTURES-1646 S 51ST-PHILADELPHIA PENNSYLVANIA\2021\01-IN PROGRESS\01-DWG\GEN F01-F02 LOC AND SITE.dwg LAYOUT: 2 SAVED: 11/2/2021 10:52 AM PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 11/2/2021 10:52 AM BY: ROBITAILLE, BEVERLY

July 30, 2024
Mr. C. David Brown, P.G.
Pennsylvania Department of Environmental Protection
Southeast Regional Office
2 East Main Street
Norristown, Pennsylvania 19401

Arcadis U.S., Inc.
2100 Georgetown Drive
Suite 402
Sewickley
Pennsylvania 15143
Tel 724 742 9180
Fax 724 742 9189
www.arcadis-us.com

Subject:
Revised Act 2 Notice of Intent to Remediate
Alliance 51st Street Terminal
1646 South 51st Street
Philadelphia, Pennsylvania 19143

Dear Mr. Brown,

On behalf of Alliance, Arcadis U.S., Inc. (Arcadis) respectfully submits this revised Notice of Intent to Remediate (NIR) for the above referenced site.

Please find enclosed the NIR package, which includes proof of municipality and county notifications, and the newspaper publication posted on July 29, 2024. We are also sending a copy to the Philadelphia Department of Public Health today, in response to your email request. Arcadis will advise the Department if public comments are received during the 30-day Public Comment Period.

Arcadis looks forward to working with the Department to close this site in accordance with Act 2. If you have any questions, concerns, or would like to discuss this further, please don't hesitate to contact me.

Respectfully Submitted,

Arcadis U.S., Inc.

Crystal L. Foster
Senior Geologist
E-mail: crystal.foster@arcadis.com
Telephone:724.934.9529

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

NOTICE OF INTENT TO REMEDIATE

For DEP Use Only
PF # ____
Rem ID # ____

Date: July 23, 2024 NIR Status: ☐ New ☒ Revised

Act 1995-2 requires four general information items to be included in the NIR: the general location, listing of contaminants, intended use of property, and proposed remediation measures. In addition, indicate the standard(s) to be obtained and attach a scaled site map (if available). Certain project amendments or changes will require submission of a revised NIR, a new public notice, and a new notification to the municipality. Changes to information marked by (**) or (††) indicate when a new NIR and new public and municipal notices are needed. DEP should also be notified of any significant changes to the initial NIR submission, including the change of future use of the property, contaminants added or removed, change of standards from site-specific to background or Statewide health, any change in the media being investigated, or change of any contact information.

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Former Name(s)/AKA 51st Street Terminal, PBF Logistics Products Terminal, Plains Products Terminals, Allied Oil Company, Hess Oil & Chemical Corporation

Address/Location 1646 South 51st Street

City Philadelphia Zip Code 19143

**Municipality(s) Philadelphia County(ies) Philadelphia

Tax Parcel ID# (if known) 884217325

Latitude 39 º (deg). 56 ‘ (min) 08 “ (sec)

Longitude -75 º (deg). 12 ‘ (min) 34 “ (sec)

Horizontal Collection Method EMAP

Horizontal Reference Datum NAD83 Reference Point CNTAR

☐ **Wish to participate in the DEP/EPA One Cleanup Program.

Contact the Land Recycling Program Manager for details at landrecycling@pa.gov.

EPA ID#, if known PAD069021830

DEP ID#(s), if known 452917

(i.e., eFACTs primary facility ID#, storage tank facility ID#, water quality permit #, etc.)

Date Release Occurred (if known) ____

Date each municipality was notified of any plan or report submitted under any remediation standard
July 29, 2024

** A change in municipality, the addition of a new municipality, or deciding to participate in the DEP/EPA One Cleanup Program requires a new NIR to be submitted with new public and municipal notifications.

Place the newspaper name and date that your notice of your plan/report submission was published
Philadelphia Inquirer; July 29, 2024

Contamination, Land Usage, and Proposed Remediation Section

Provide a brief description of the site contamination, to the extent known, in plain language (e.g., fuel oil spill, historical chemical industrial area, etc.), the current and intended future use of the property in the box below.

Organic compounds and lead are primarily associated with the former use of the property as a fuel oil terminal from approximately 1951- 2021 by companies including Allied Oil, Hess Oil & Chemical, Plains Products Terminals and PBF Logistics (PBF). PBF recently closed, demolished, and removed the aboveground storage tanks (ASTs). Soil borings in the former AST and piping area identified exceedances of the non-residential (NR) direct contact and/or soil to groundwater MSCs for volatile organic compounds, semivolatile organic componds, and lead. Groundwater samples from temporary wells had exceedances of the NR used aquifer GW MSCs for benzene, 1,2,4-trimethylbenzene, and lead. Hexavalent chromium is present due to the historic placement of fill onsite in the early 1900s. The site is intended for non-residential future use.

Provide a general description of proposed remediation measures.

The groundwater and soils at the site will be further characterized. The remedy for this site is expected to include, but not be limited to, implementation of a monitored natural attenuation program for groundwater and the filing of an environmental covenant.

Standards Selection Section

Check all the boxes that apply for the appropriate contaminant groups according to the standard(s) and media of the remediation to be performed.

NOTE: Either the site-specific standard or a special industrial area requires a 30-day public and municipal comment period.

Contaminant Groups	Background		Statewide Health–Residential		Statewide Health–Non-Residential		††Site-Specific Standard		††Special Industrial Area	
	Soil	GW	Soil	GW	Soil	GW	Soil	GW	Soil	GW
Aviation Gasoline	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Diesel Fuel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 2	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 4	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 6	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Jet Fuel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Leaded Gasoline	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
New Motor Oil	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Unleaded Gasoline	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Used Motor Oil	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Chlorinated Solvents	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Inorganics	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
Lead	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
MTBE	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
Other Organics	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
PAHs	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
PCBs	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Pesticides	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
PFAS	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

GW: groundwater

†† Changing the selected standard from either background or Statewide health to the site-specific standard, changing to a combination of standards that includes the site-specific standard, or choosing the special industrial area designation requires a new NIR submission with new public and municipal notifications.

Please list individual contaminants here, by environmental medium and cleanup standard (optional):

See attached tables

Property Owner, Remediator/Participant, and Consultant
Complete the form below for each recipient obtaining a release of liability upon approval of the final report. Attach additional sheets as necessary.

Property Owner
Contact Person/Title Max Ryan/Director of Development & Construction eFACTs Client ID(If Known) _____
Phone Number (856) 699-1105 Email Address mryan@allianceshp.com
Company Name Alliance 51st Street, LLC EIN or Federal ID # _____
Address (street, city, state, zip) 40 Morris Ave, Ste 230, Bryn Mawr, PA 19010
Client Type (choose from list below) Limited Liability company

Client Types:

Association/Organization		
Authority	Limited Liability Partnership	Partnership-General
County	Municipality	Partnership-Limited
Estate/Trust	Non-Pennsylvania	Pennsylvania Corporation
Federal Agency	Government	School District
Individual	Other (Government)	Sole Proprietorship
Limited Liability company	Other (Non-Government)	State Agency

Consultant
Contact Person/Title Lawrence G. Brunt/P.E.(Prinicpal Engineer) Email Address larry.brunt@arcadis.com
Phone Number (908) 526-1000 Company Name Arcadis US, Inc.
Address (street, city, state, zip) 1 Harvard Way, Ste 5, Hillsborough, NJ 08844

Other Participant (Remediator)
Contact Person/Title _____
Relationship to Site _____
(e.g. remediator, participant in cleanup if other than owner, etc.)
Phone Number _____ Email Address _____
Company Name _____ EIN or Federal ID # _____
Address (street, city, state, zip) _____

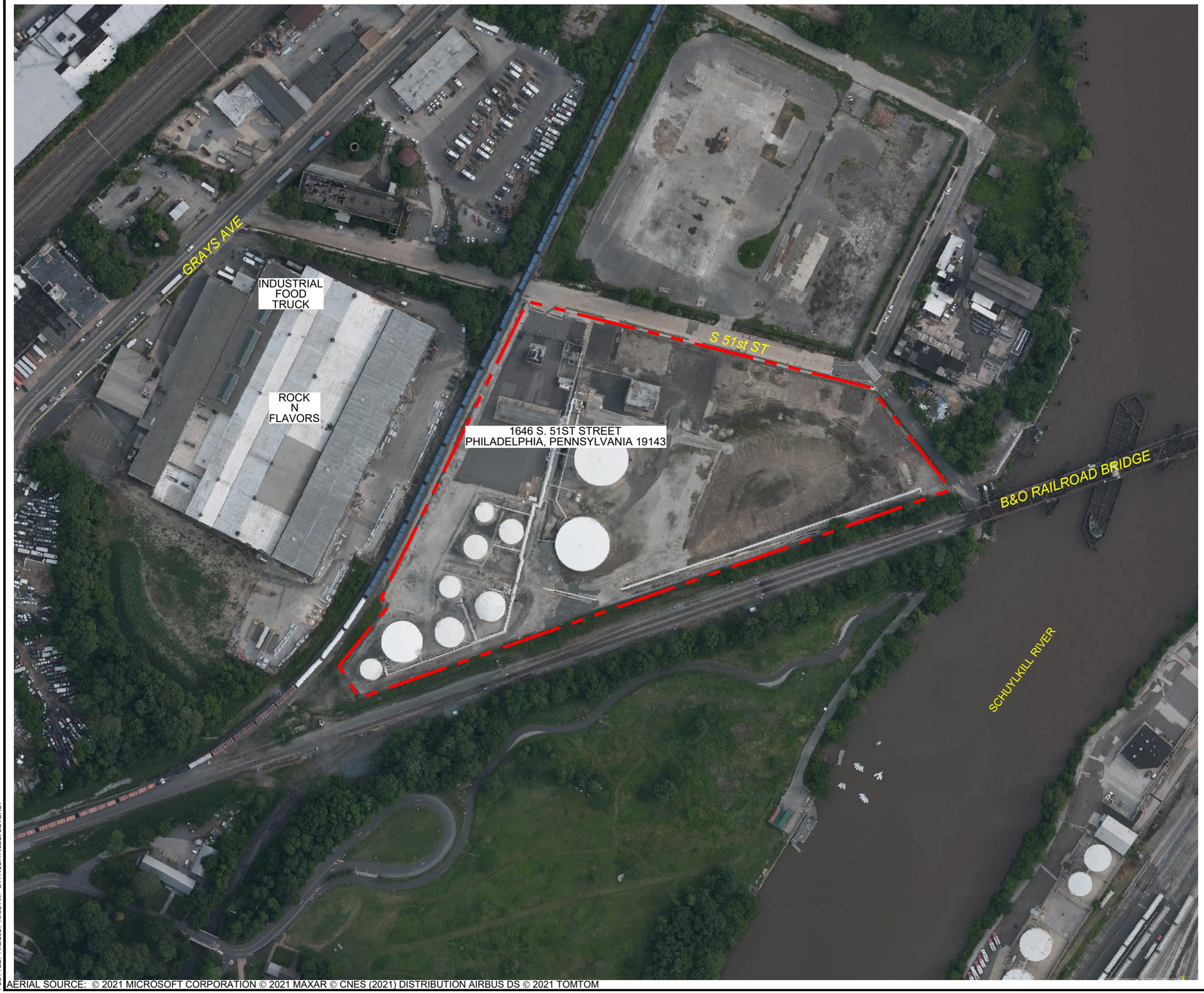
Preparer of Notice of Intent to Remediate
Name Anthony Reitano, Esq. Title Attorney
Phone Number (908) 647-1022 Email Address areitano@heroldlaw.com
Company Name Herold Law, P.A.
Address (street, city, state, zip) 25 Independence Blvd., Warren, New Jersey, 07059

Table 1
Constituents of Concern in Soil
Alliance 51st Street LLC
1646 South 51st Street
Phildelphia, Pennsylvania

Chemical Name	CAS Number
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	95-63-6
Benzene	71-43-2
Cyclohexane	110-82-7
Ethylbenzene	100-41-4
Isopropylbenzene	98-82-8
Methyl cyclohexane	108-87-2
o-Xylene	95-47-6
p/m-Xylene	179601-23-1
Toluene	108-88-3
Xylenes, total	1330-20-7
1,2-Dichlorobenzene	95-50-1
1,4-Dichlorobenzene	106-46-7
Acetone	67-64-1
Methyl tert-butyl ether	1634-04-4
Styrene	100-42-5
Naphthalene	91-20-3
1,3,5-Trimethylbenzene	108-67-8
2-Butanone	78-93-3
1,2-Dichloroethane	107-06-2
Methyl acetate	79-20-9
Semivolatile Organic Compounds	
2-Methylnaphthalene	91-57-6
Acenaphthene	83-32-9
Anthracene	120-12-7
Benzo(a)anthracene	56-55-3
Benzo(a)pyrene	50-32-8
Benzo(b)fluoranthene	205-99-2
Benzo(ghi)perylene	191-24-2
Benzo(k)fluoranthene	207-08-9
Biphenyl	92-52-4
Chrysene	218-01-9
Dibenzofuran	132-64-9
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno(1,2,3-cd)pyrene	193-39-5
Naphthalene	91-20-3
Phenanthrene	85-01-8
Pyrene	129-00-0
Bis(2-chloroethyl)ether	111-44-4
Inorganics	
Chromium, total	7440-47-3
Hexavalent Chromium	18540-29-9
Lead, total	7439-92-1

Table 2
Constituents of Concern in Groundwater
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

Chemical Name	CAS Number
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	95-63-6
Benzene	71-43-2
Chloromethane	74-87-3
Cyclohexane	110-82-7
Isopropylbenzene	98-82-8
o-Xylene	95-47-6
p/m-Xylene	179601-23-1
Toluene	108-88-3
Xylenes, total	1330-20-7
Naphthalene	91-20-3
Methyl cyclohexane	108-87-2
Ethylbenzene	100-41-4
Methyl tert-butyl ether	1634-04-4
1,3,5-Trimethylbenzene	108-67-8
Acetone	67-64-1
Carbon disulfide	75-15-0
2-Butanone	78-93-3
1,2-Dichloroethane	107-06-2
Vinyl chloride	75-01-4
1,2-Dichloroethene, total	540-59-0
cis-1,2-Dichloroethene	156-59-2
1,2-Dichlorobenzene	95-50-1
Chlorobenzene	108-90-7
1,4-Dichlorobenzene	106-46-7
1,3-Dichlorobenzene	541-73-1
2-Hexanone	591-78-6
4-Methyl-2-pentanone	108-10-1
Inorganics	
Lead, dissolved	7439-92-1
Chromium, dissolved	7440-47-3
Chromium, total	7440-47-3
Hexavalient Chromium	18540-29-9



AERIAL SOURCE: © 2021 MICROSOFT CORPORATION © 2021 MAXAR © CNES (2021) DISTRIBUTION AIRBUS DS © 2021 TOMTOM

LEGEND:

PROPERTY BOUNDARY

Aboveground storage tanks have been removed.

0 200' 400'

GRAPHIC SCALE

ALLIANCE HP INVESTMENTS, LLC
1646 S. 51ST STREET
PHILADELPHIA, PENNSYLVANIA

SITE PLAN

ARCADIS

FIGURE 1

CITY: CITY DIV/GROUP:ENVCAD DB:ENVCAD
C:\Users\barobla\OneDrive - ARCADIS\BIM 360 Docs\AUS-ALLIANCE HSP VENTURES-1646 S 51ST-PHILADELPHIA PENNSYLVANIA\2021\01-IN PROGRESS\01-DWG\GEN F01-F02 LOC AND SITE.dwg LAYOUT: 2 SAVED: 11/2/2021 10:52 AM PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 11/2/2021 10:52 AM BY: ROBITAILLE, BEVERLY

FedEx Tracking: 777628043388

ARCADIS

Municipal Manager
City of Philadelphia

County Manager
Philadelphia County

Municipal Service Building
1401 John F. Kennedy Blvd
Philadelphia, PA 19107

Arcadis U.S., Inc.
2100 Georgetown Drive
Suite 402
Sewickley
Pennsylvania 15143
Phone: 724 742 9180
www.arcadis.com

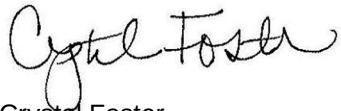
Date: July 26, 2024
Our Ref: 30108678
Subject: Notice of Intent to Remediate
1646 South 51st Street
City of Philadelphia
Philadelphia County, Pennsylvania 19143

Dear Municipal and County Managers,

The Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. 4, No. 1995-2 (the "Act"), 35 P.S. §§ 6026.101 et seq., requires that a Notice of Intent to Remediate (NIR) be provided to the county and municipality in which a site entering the Act 2 program is located. Based on our records, both the City and County of Philadelphia operate from the same address at 1401 John F. Kennedy Blvd, Philadelphia, PA. In accordance with the provisions of the Act and on behalf of Alliance 51st Street LLC (Alliance), Arcadis U.S., Inc. is formally notifying you of Alliance's intent to remediate the subject site. A copy of the revised Notice of Intent to Remediate (NIR), which is being sent to the Pennsylvania Department of Environmental Protection (PADEP), Southeast Regional Office, is enclosed.

A notice of NIR submittal will also be published in the Philadelphia Inquirer newspaper on July 29, 2024, which serves the City of Philadelphia. Publication of this notice in the local newspaper initiates a 30-day public and municipal comment period. During this time, you may request to become involved in the development of the remediation plans for the Site. If you wish to become involved in this project or if you have any questions or need additional information regarding the proposed remediation, please feel free to contact me.

Sincerely,
Arcadis U.S., Inc.



Crystal Foster
Senior Geologist
Email: crystal.foster@arcadis.com
Direct Line: 724.934.9529

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

NOTICE OF INTENT TO REMEDIATE

For DEP Use Only
PF # ____
Rem ID # ____

Date: July 23, 2024 NIR Status: ☐ New ☒ Revised

Act 1995-2 requires four general information items to be included in the NIR: the general location, listing of contaminants, intended use of property, and proposed remediation measures. In addition, indicate the standard(s) to be obtained and attach a scaled site map (if available). Certain project amendments or changes will require submission of a revised NIR, a new public notice, and a new notification to the municipality. Changes to information marked by (**) or (††) indicate when a new NIR and new public and municipal notices are needed. DEP should also be notified of any significant changes to the initial NIR submission, including the change of future use of the property, contaminants added or removed, change of standards from site-specific to background or Statewide health, any change in the media being investigated, or change of any contact information.

Property Name Alliance 51st Street.

Former Name(s)/AKA 51st Street Terminal, PBF Logistics PRoducts Terminal, Plains Products Terminals, Allied Oil Company, Hess Oil & Chemical Corporation

Address/Location 1646 South 51st Street

City Philadelphia Zip Code 19143

**Municipality(s) Philadelphia County(ies) Philadelphia

Tax Parcel ID# (if known) 884217325

Latitude 39 º (deg). 56 ‘ (min) 08 “ (sec)

Longitude -75 º (deg). 12 ‘ (min) 34 “ (sec)

Horizontal Collection Method EMAP

Horizontal Reference Datum NAD83 Reference Point CNTAR

☐ **Wish to participate in the DEP/EPA One Cleanup Program.

Contact the Land Recycling Program Manager for details at landrecycling@pa.gov.

EPA ID#, if known PAD069021830

DEP ID#(s), if known 452917

(i.e., eFACTs primary facility ID#, storage tank facility ID#, water quality permit #, etc.)

Date Release Occurred (if known) ____

Date each municipality was notified of any plan or report submitted under any remediation standard
July 29, 2024

** A change in municipality, the addition of a new municipality, or deciding to participate in the DEP/EPA One Cleanup Program requires a new NIR to be submitted with new public and municipal notifications.

Place the newspaper name and date that your notice of your plan/report submission was published
Philadelphia Inquirer; July 29, 2024

Contamination, Land Usage, and Proposed Remediation Section

Provide a brief description of the site contamination, to the extent known, in plain language (e.g., fuel oil spill, historical chemical industrial area, etc.), the current and intended future use of the property in the box below.

Organic compounds and lead are primarily associated with the former use of the property as a fuel oil terminal from approximately 1951- 2021 by companies including Allied Oil, Hess Oil & Chemical, Plains Products Terminals and PBF Logistics (PBF). PBF recently closed, demolished, and removed the aboveground storage tanks (ASTs). Soil borings in the former AST and piping area identified exceedances of the non-residential (NR) direct contact and/or soil to groundwater MSCs for volatile organic compounds, semivolatile organic componds, and lead. Groundwater samples from temporary wells had exceedances of the NR used aquifer GW MSCs for benzene, 1,2,4-trimethylbenzene, and lead. Hexavalent chromium is present due to the historic placement of fill onsite in the early 1900s. The site is intended for non-residential future use.

Provide a general description of proposed remediation measures.

The groundwater and soils at the site will be further characterized. The remedy for this site is expected to include, but not be limited to, implementation of a monitored natural attenuation program for groundwater and the filing of an environmental covenant.

Standards Selection Section

Check all the boxes that apply for the appropriate contaminant groups according to the standard(s) and media of the remediation to be performed.

NOTE: Either the site-specific standard or a special industrial area requires a 30-day public and municipal comment period.

Contaminant Groups	Background		Statewide Health–Residential		Statewide Health–Non-Residential		††Site-Specific Standard		††Special Industrial Area	
	Soil	GW	Soil	GW	Soil	GW	Soil	GW	Soil	GW
Aviation Gasoline	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Diesel Fuel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 2	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 4	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Oil No. 6	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Jet Fuel	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Leaded Gasoline	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
New Motor Oil	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Unleaded Gasoline	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Used Motor Oil	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Chlorinated Solvents	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Inorganics	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
Lead	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
MTBE	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
Other Organics	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
PAHs	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐
PCBs	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Pesticides	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
PFAS	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

GW: groundwater

†† Changing the selected standard from either background or Statewide health to the site-specific standard, changing to a combination of standards that includes the site-specific standard, or choosing the special industrial area designation requires a new NIR submission with new public and municipal notifications.

Please list individual contaminants here, by environmental medium and cleanup standard (optional):

See attached tables

Property Owner, Remediator/Participant, and Consultant
Complete the form below for each recipient obtaining a release of liability upon approval of the final report. Attach additional sheets as necessary.

Property Owner
Contact Person/Title Max Ryan/Director of Development & Construction eFACTs Client ID(If Known) _____
Phone Number (856) 699-1105 Email Address mryan@allianceshp.com
Company Name Alliance 51st Street, LLC EIN or Federal ID # _____
Address (street, city, state, zip) 40 Morris Ave, Ste 230, Bryn Mawr, PA 19010
Client Type (choose from list below) Limited Liability company

Client Types:

Association/Organization		
Authority	Limited Liability Partnership	Partnership-General
County	Municipality	Partnership-Limited
Estate/Trust	Non-Pennsylvania	Pennsylvania Corporation
Federal Agency	Government	School District
Individual	Other (Government)	Sole Proprietorship
Limited Liability company	Other (Non-Government)	State Agency

Consultant
Contact Person/Title Lawrence G. Brunt/P.E.(Prinicpal Engineer) Email Address larry.brunt@arcadis.com
Phone Number (908) 526-1000 Company Name Arcadis US, Inc.
Address (street, city, state, zip) 1 Harvard Way, Ste 5, Hillsborough, NJ 08844

Other Participant (Remediator)
Contact Person/Title _____
Relationship to Site _____
(e.g. remediator, participant in cleanup if other than owner, etc.)
Phone Number _____ Email Address _____
Company Name _____ EIN or Federal ID # _____
Address (street, city, state, zip) _____

Preparer of Notice of Intent to Remediate
Name Anthony Reitano, Esq. Title Attorney
Phone Number (908) 647-1022 Email Address areitano@heroldlaw.com
Company Name Herold Law, P.A.
Address (street, city, state, zip) 25 Independence Blvd., Warren, New Jersey, 07059

Table 1
Constituents of Concern in Soil
Alliance 51st Street LLC
1646 South 51st Street
Phildelphia, Pennsylvania

Chemical Name	CAS Number
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	95-63-6
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Ethylbenzene	100-41-4
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Methyl cyclohexane	108-87-2
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p/m-Xylene	179601-23-1
Toluene	108-88-3
Xylenes, total	1330-20-7
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Acetone	67-64-1
Methyl tert-butyl ether	1634-04-4
Styrene	100-42-5
Naphthalene	91-20-3
1,3,5-Trimethylbenzene	108-67-8
2-Butanone	78-93-3
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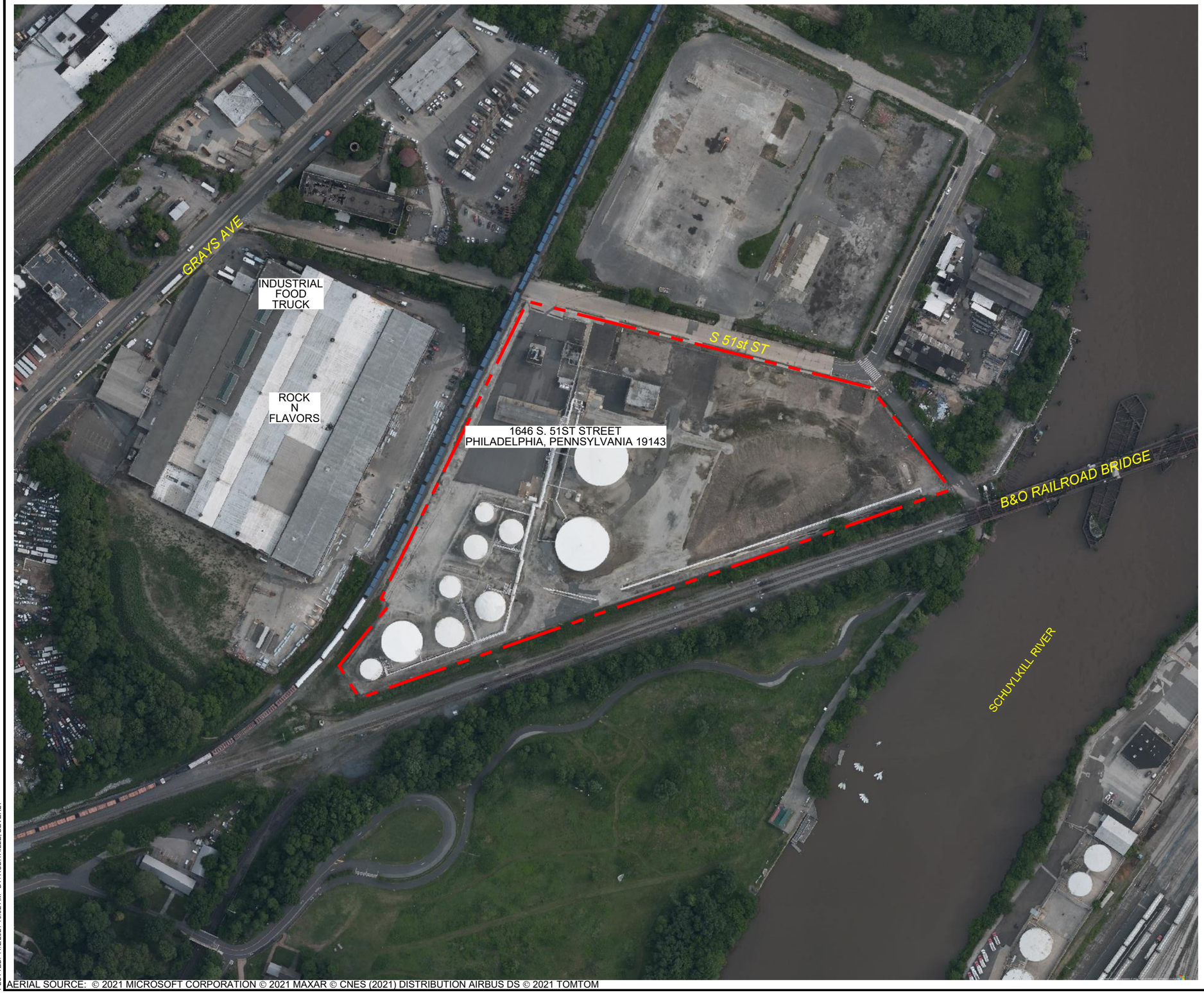
Methyl acetate	79-20-9
Semivolatile Organic Compounds	
2-Methylnaphthalene	91-57-6
Acenaphthene	83-32-9
Anthracene	120-12-7
Benzo(a)anthracene	56-55-3
Benzo(a)pyrene	50-32-8
Benzo(b)fluoranthene	205-99-2
Benzo(ghi)perylene	191-24-2
Benzo(k)fluoranthene	207-08-9
Biphenyl	92-52-4
Chrysene	218-01-9
Dibenzofuran	132-64-9
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno(1,2,3-cd)pyrene	193-39-5
Naphthalene	91-20-3
Phenanthrene	85-01-8
Pyrene	129-00-0
Bis(2-chloroethyl)ether	111-44-4
Inorganics	
Chromium, total	7440-47-3
Hexavalent Chromium	18540-29-9
Lead, total	7439-92-1

Table 2
Constituents of Concern in Groundwater
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

Chemical Name	CAS Number
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	95-63-6
Benzene	71-43-2
Chloromethane	74-87-3
Cyclohexane	110-82-7
Isopropylbenzene	98-82-8
o-Xylene	95-47-6
p/m-Xylene	179601-23-1
Toluene	108-88-3
Xylenes, total	1330-20-7
Naphthalene	91-20-3
Methyl cyclohexane	108-87-2
Ethylbenzene	100-41-4
Methyl tert-butyl ether	1634-04-4
1,3,5-Trimethylbenzene	108-67-8
Acetone	67-64-1
Carbon disulfide	75-15-0
2-Butanone	78-93-3
1,2-Dichloroethane	107-06-2
Vinyl chloride	75-01-4
1,2-Dichloroethene, total	540-59-0
cis-1,2-Dichloroethene	156-59-2
1,2-Dichlorobenzene	95-50-1
Chlorobenzene	108-90-7
1,4-Dichlorobenzene	106-46-7
1,3-Dichlorobenzene	541-73-1
2-Hexanone	591-78-6
4-Methyl-2-pentanone	108-10-1
Inorganics	
Lead, dissolved	7439-92-1
Chromium, dissolved	7440-47-3
Chromium, total	7440-47-3
Hexavalient Chromium	18540-29-9



AERIAL SOURCE: © 2021 MICROSOFT CORPORATION © 2021 MAXAR © CNES (2021) DISTRIBUTION AIRBUS DS © 2021 TOMTOM

LEGEND:

PROPERTY BOUNDARY

Aboveground storage tanks have been removed.

0 200' 400'

GRAPHIC SCALE

ALLIANCE HP INVESTMENTS, LLC
1646 S. 51ST STREET
PHILADELPHIA, PENNSYLVANIA

SITE PLAN

ARCADIS

FIGURE 1

CITY: CITY DIV/GROUP:ENVCAD DB:ENVCAD
C:\Users\barobla\OneDrive - ARCADIS\BIM 360 Docs\AUS-ALLIANCE HSP VENTURES-1646 S 51ST-PHILADELPHIA PENNSYLVANIA\2021\01-IN PROGRESS\01-DWG\GEN F01-F02 LOC AND SITE.dwg LAYOUT: 2 SAVED: 11/2/2021 10:52 AM PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 11/2/2021 10:52 AM BY: ROBITAILLE, BEVERLY

FedEx Shipment 777628043388: Your package has been delivered

TrackingUpdates@fedex.com <TrackingUpdates@fedex.com>
Mon 7/29/2024 8:41 AM
To:Zielinski, Shelby <Shelby.Zielinski@arcadis.com>

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FedEx

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TRACKING NUMBER 777628043388

FROM	ARCADIS U.S., Inc. 2100 Georgetown Drive Suite 402 SEWICKLEY, PA, US, 15143
TO	Municipal Service Building Municipal Mgr and County Mgr 1401 John F Kennedy Blvd PHILADELPHIA, PA, US, 19107
REFERENCE	30108678
SHIPPER REFERENCE	30108678
SHIP DATE	Fri 7/26/2024 06:11 PM
PACKAGING TYPE	FedEx Envelope
ORIGIN	SEWICKLEY, PA, US, 15143
DESTINATION	PHILADELPHIA, PA, US, 19107
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Standard Overnight

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The Philadelphia Inquirer
100 S. INDEPENDENCE MALL W, STE 600, PHILADELPHIA, PA 19106

Affidavit of Publication

On Behalf of:
ARCADIS U S INC
2100 GEORGETOWN DR
SUITE 402
SEWICKLEY, PA 15143

STATE OF PENNSYLVANIA COUNTY OF PHILADELPHIA:

Before the undersigned authority personally appeared the undersigned who, on oath represented a and say: that I am an employee of The Philadelphia Inquirer, LLC, and am authorized to make this affidavit of publication, and being duly sworn, I depose and say:

1. The Philadelphia Inquirer, LLC is the publisher of the Philadelphia Inquirer, with its headquarters at 100 S. Independence Mall West, Suite 600, Philadelphia, PA 19106.
2. The Philadelphia Inquirer is a newspaper that which was established in in the year 1829, since which date said daily newspaper has been continuously published and distributed daily in the City of Philadelphia, count and state aforesaid.
3. The printed notice or publication attached hereto set forth on attached
hereto was published in all regular print editions of
The Philadelphia Inquirer on

Legal Notices

as published in **Inquirer Legals** in the issue(s) of:

7/29/2024

4. Under oath, I state that the following is true and correct, and that neither I nor The Philadelphia Inquirer, LLC have any is interest in the subject matter of the aforesaid notice or advertisement.

Helene Sweeney

Nancy S. Fisher
Notary Public

My Commission Expires:

Commonwealth of Pennsylvania - Notary Seal
Nancy S Fisher, Notary Public
Philadelphia County
My Commission Expires June 27, 2027
Commission Number 1433937

Ad No: 168597
Customer No: 105030

COPY OF ADVERTISEMENT

"Pursuant to the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. 4, No. 1995-2 (the "Act"), 35 P.S. §§ 6026.101 et seq., notice is hereby given that Alliance 51st Street LLC (Alliance) has submitted to the Pennsylvania Department of Environmental Protection (PADEP) a revised Notice of Intent to Remediate (NIR) for a site located at 1646 South 51st Street, in the City of Philadelphia, Philadelphia County, Pennsylvania. The site is currently vacant. Contaminants present in soil and groundwater are primarily associated with the historic use of the site as a petroleum terminal and filling of the site in the early 1900s. Contaminants present include volatile organic compounds, semivolatile organic compounds, and metals including lead, chromium, and hexavalent chromium. The NIR provides for additional investigative and/or remedial activities under the Act as necessary to obtain a relief of liability for any soil and groundwater contamination in accordance with a combination of Act 2 Statewide Health Standards and Site-Specific Standards. The proposed future use of the property will continue to be non-residential.

The Act provides for a 30-day public comment period for Site-Specific Standard remediations. The 30-day comment period is initiated with the publication of this notice. Until 30 days after this publication date, you may submit a request to Alliance to be involved in the development of the remediation and reuse plans for the site. You may also submit a request to Alliance during this 30-day comment period to develop and implement a public involvement plan. The address for comments is Alliance, c/o Arcadis U.S., Inc., **2100 Georgetown Drive, Suite 402, Sewickley, Pennsylvania 15143.** Copies of this request and any comments should also be submitted to the PADEP at **2 East Main Street, Norristown, Pennsylvania 19401."**

Foster, Crystal

From: Foster, Crystal
Sent: Tuesday, July 30, 2024 12:31 PM
To: LeighAnne.Rainford@Phila.gov
Cc: cdbrown@pa.gov; Anthony Reitano
Subject: Revised Notice Of Intent to Remediate - 1646 South 51st Street
Attachments: Health Dept Notification_Alliance 51st St Revised NIR.pdf

Good afternoon, Ms. Rainford,

Please see the attached notification that is being mailed to you this week regarding the above-referenced property. Thank you!

Crystal L. Foster
Senior Geologist
Arcadis U.S., Inc.
2100 Georgetown Drive | Suite 402 | Sewickley, PA | 15143 | USA
T +1 724 934 9529
M +1 412 527 2575
www.arcadis.com

CITY OF PHILADELPHIA

DEPARTMENT OF PUBLIC HEALTH
1101 Market Street, 13th Floor
Philadelphia, PA 19107

FRANK A. FRANKLIN, PhD, JD, MPH, FCPP
Interim Health Commissioner

SARA ENES, MBA, MSW
Chief of Staff

August 1, 2024

Crystal Foster
Arcadis U.S., Inc.
2100 Georgetown Drive
Suite 402
Sewickley, PA 15143

Dear Ms. Foster:

Recently, the City of Philadelphia Department of Public Health, Environmental Engineering Unit received a Notice of Intent to Remediate (NIR) from your firm, under the provisions of the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2) regarding the property located at **1646 South 51st Street**, Philadelphia, Pennsylvania (19143).

Through the Notice of Intent (NIR) provisions of Act 2, the City of Philadelphia hereby requests that you develop a Public Involvement Plan (PIP) for this site. This request is made in accordance with the internal procedures first developed by the City in 2003 for this purpose. These procedures recommend our municipality request a PIP if the project is in close proximity or adjacent to residential, educational (schools/daycare), medical, religious, recreational and park properties. Since this property is in close proximity to residential properties, we are obligated to request a PIP. In addition to the reason above, members of the interdepartmental review team which reviews NIRs submitted to the City have recommended a PIP in this instance.

The venue for this PIP will be an appropriately publicized meeting of interested parties (impacted community and businesses) you will host to discuss this site, to be held at a suitable location and time, allowing interested parties to attend. An approximate 30 days advance notice of the meeting must be provided, during which time all relevant sampling and background investigation material should be made available for public inspection at a suitable location, such as the nearest school or public library.

The meeting would focus on the following:

- Identity, location and concentration of contaminants and hazardous substances found in sampling events at the site;
- Any potential health effects of those contaminants, based on locations and concentrations noted;
- Measures to be taken to protect the community, workers and recreation areas from possible exposure;
- Further definition of the remediation methodology to be employed;
- Discussion of specific procedures, such as dust control, sedimentation, and erosion control.

Following the meeting, all supplemental material, which will include presentation materials, attendance list, and questions and answers will append the material provided earlier, which will be given to PA DEP, with a copy to the City.

Please notify the Department of Public Health in writing of the date, time and location of the public meeting, and the location of the document depository as noted above.

Please note that this PIP request has nothing to do with the perceived value and need of this development for the community and the City. We assume that you have already had several meetings with the community, elected officials, and others on the benefits of this development. This PIP request is specifically concerned with final questions regarding the proposed remediation to be employed on the site in its current condition. Accordingly, your presentation can be geared specifically to the remediation strategy, and the questions noted above.

Should you have any questions, please contact Leigh Anne Rainford of our Department's Environmental Engineering section at 215-685-7497 or at LeighAnne.Rainford@Phila.gov.

Best regards,

Frank A. Franklin, PhD, JD, MPH, FCPP
Interim Health Commissioner

cc: C. David Brown, PA DEP
Dawn Kiesewetter, Director, Environmental Health Services
India McGhee, Deputy City Solicitor, Regulatory Law Unit

Pennsylvania
Department of Environmental Protection

August 14, 2024

Mr. Max Ryan
Alliance 51st Street, LLC
40 Morris Avenue, Suite 230
Bryn Mawr, PA 19010

Re: Receipt of Notice of Intent to Remediate
Statewide Health (Non-Residential)/Site-Specific Standards
Alliance 51st Street, a.k.a. 51st Street Terminal, PBF Logistics Products Terminal, Plains Products Terminals, Allied Oil Company, Hess Oil & Chemical Corporation
eFACTS PF No. 855927
eFACTS Activity Nos. 60376 and 60377
1646 South 51st Street
City of Philadelphia
Philadelphia County

Dear Mr. Ryan:

This letter acknowledges receipt of your Notice of Intent to Remediate (NIR) on July 30, 2024, pertaining to the subject property and submitted in accordance with the Land Recycling and Environmental Remediation Standards Act (Act 2). The procedures set forth in Act 2 must be followed in order for this site to qualify for the liability protection provided by the Act. The Department of Environmental Protection (DEP) will not accept plans and reports until after the 30-day comment period following submission of the NIR ends.

The 30-day comment period following submission of the NIR allows the municipality the opportunity to request to be involved in the development of remediation and reuse plans for the property. If the municipality requests a public involvement plan, any comments and responses must be included in any subsequent Site-Specific Standard reports. Remedial investigation reports, risk assessment reports, cleanup plans, and final reports submitted to DEP under the site-specific standard need to be accompanied by the required fees and documentation verifying compliance with the public notification requirements.

Additional technical and program information can be found at www.dep.pa.gov (Business>Land>Land Recycling). Also, please refer to the Land Recycling checklists which are helpful in assuring reports are complete before submittal. DEP uses the checklists to perform administrative and technical completeness reviews when plans and/or reports are submitted. It is strongly encouraged to include the appropriate completed checklist with your Final Report submission. Land Recycling checklists can also be found at the website under 'Forms, Checklists & Notifications' link.

Please refer to the Standard Attachment for considerations of other programs which may be applicable to this property.

Mr. Matthew Sabetta is the project officer assigned to your project and will be working with you towards the remediation of this property. Frequent contact is encouraged between your representatives and our staff. If you have any questions or need further clarifications of our procedures, please contact the project officer by e-mail at msabetta@pa.gov or by telephone at 484.250.5788.

Sincerely,

C. David Brown, P.G. Digitally signed by C. David Brown, P.G.
Date: 2024.08.14 16:04:05 -04'00'

C. David Brown, P.G.
Professional Geologist Manager
Environmental Cleanup and Brownfields

Enclosure: Standard Attachment

cc: City of Philadelphia
Mr. Reitano, Esq. – Herold Law
Mr. Brunt, P.E. – Arcadis US, Inc.
Mr. Sabetta, P.G.
Ms. Costello, Esq.
Re 30 (GJS24ECB)855927-08142024-SHS SSS

CITY OF PHILADELPHIA

OFFICE OF THE HEALTH COMMISSIONER
1101 Market Street, Suite 1320
Philadelphia, Pennsylvania 19107
Tel: (215) 686-9009
Fax: (215) 686-5212

Palak Raval-Nelson, PhD, MPH
Health Commissioner

January 8th, 2025

VIA EMAIL

Lawrence Brunt, P.E.
Arcadis U.S., Inc.
2100 Georgetown Drive, Suite 402
Sewickley, PA 15143
Larry.Brunt@arcadis.com

RE: City Comments on the Alliance 51st Street Public Involvement Plan for 1646 South 51st Street, Philadelphia, PA 19143

Dear Mr. Brunt:

Following review of the draft Public Involvement Plan (PIP) submitted by Alliance 51st Street LLC (Alliance) to the City of Philadelphia (City) on December 4th, 2024, the City submits the following comments on the PIP:

1. The City recommends the inclusion of the date and location of the most recent Hexavalent Chromium release within the *Site Location and History* section of the PIP. This will provide important context for proposed PIP activities to community members.
2. The City recommends the use of alternate sites for the public meeting and document repository. The Walnut Street West Library is over 1.5 miles from the site and is not easily accessible by public transit for individuals with limited mobility. Specifically, there is no direct bus route from the site to the library and attendees would have to walk over 0.25 miles from the nearest trolley station. In addition, parking around the library is very limited. Potential alternative locations for the meeting and repository include Bartram's Garden or the Bartram's Housing Development. Both are within walking distance of the site, have available parking, and are widely accessible to residents living in the neighborhood immediately surrounding the Alliance property.
3. The City requests the publication of an online repository to increase accessibility of project documents. Given that Alliance 51st has proposed the use of an online meeting platform, an online database would ensure that all residents participating in PIP activities, whether virtually or in-person, have easy access to relevant information. .

4. The City requests a copy of any documents housed in the repository be sent via email to LeighAnne.Rainford@phila.gov.
5. The City requests that activities and documents be presented in an accessible format to account for the diverse members of the public. This may include using plain language summaries of important information and translation of printed materials and live events. Spanish, Arabic, and French, Haitian or Cajun, are common languages in this area.
6. The City recommends that community feedback on proposed remediation methods be legitimately considered and included in final site plans. The City also recommends that community concerns be addressed both at community meetings and in comment-response documents. True public participation occurs when affected parties, including residents, are meaningfully included in decision-making processes, and not merely informed of decisions after they are made.

We appreciate your consideration of these suggestions and look forward to reviewing the next iteration of the PIP. Please forward any questions regarding these comments to Leigh-Anne Rainford.

Sincerely,

Palak Raval-Nelson, PhD, MPH
Health Commissioner
Philadelphia Department of Public Health

cc: Leigh Anne Rainford, MPH, Program Administrator of Food Protection and Environmental Engineering, Philadelphia Department of Public Health
Aurora Trainor, MPH, Environmental Justice Coordinator, Philadelphia Department of Public Health
Jane Hwang, Deputy City Solicitor, Philadelphia Law Department
India McGhee, Divisional Deputy Solicitor, Philadelphia Law Department
Councilmember Jamie R. Gauthier, 3rd District, City of Philadelphia
Maitreyi Roy, Executive Director, Bartram's Garden
Lisa Strobridge, PG, Local Government Liaison, Pennsylvania Department of Environmental Protection
Amani Reid, Eastern Regional Coordinator, Pennsylvania Department of Environmental Protection
Ms. Crystal Yates-Gale, MBA, Deputy Managing Director

Foster, Crystal

From: Leigh-Anne Rainford <LeighAnne.Rainford@phila.gov>
Sent: Wednesday, February 5, 2025 9:42 AM
To: Foster, Crystal; Brunt, Larry
Cc: cdbrown@pa.gov; Strobridge, Lisa; India McGhee; Jane Hwang; Aurora Trainor; Dawn Kiesewetter; Anthony Reitano; Eric Carlson; Max Ryan; Palak Raval-Nelson
Subject: Re: PIP Request-1646 S. 51st Street
Attachments: Public Involvement Plan - Alliance 51St Street 01-21-2025.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

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Ms. Foster,

The City appreciates Alliance 51st Street, LLC's ("Alliance") commitment to developing a robust public involvement plan regarding the ongoing remediation at 51st Alliance Street. However, the City remains concerned that the site for the proposed public meeting is too far away from the Alliance site. We strongly encourage Alliance to move the public meeting to Bartram's Garden or the Bartram's Garden Housing Development, where members of the public most directly effected by the remediation can more easily attend the meeting. Additionally, the City encourages Alliance to also utilize Bartram's Garden for the information repository, since it is within easy, accessible walking distance of both the site and immediately adjacent neighbors.

These comparatively small changes to the proposed public involvement plan would make a big difference to the community and ensure that meaningful public participation is achieved.

Thank you.

Leigh Anne Rainford, MPH
Program Administrator of Food Protection and Environmental Engineering
Environmental Health Services | Philadelphia Department of Public Health
7801 Essington Avenue | Philadelphia, PA 19153
Phone: (215) 685 – 7497
LeighAnne.Rainford@Phila.gov

Department of Public Health

MEMBER National Environmental Health Association neha EST. 1937

From: Foster, Crystal <Crystal.Foster@arcadis.com>
Sent: Tuesday, January 21, 2025 7:10 PM
To: Leigh-Anne Rainford <LeighAnne.Rainford@phila.gov>; Brunt, Larry <Larry.Brunt@arcadis.com>
Cc: cdbrown@pa.gov <cdbrown@pa.gov>; Strobridge, Lisa <lstrobridg@pa.gov>; India McGhee <India.McGhee@Phila.gov>; Jane Hwang <Jane.Hwang@Phila.gov>; Aurora Trainor <Aurora.Trainor@phila.gov>; Dawn Kiesewetter <Dawn.Kiesewetter@phila.gov>; Anthony Reitano <areitano@heroldlaw.com>; Eric Carlson <ecarlson@alliancehp.com>; Max Ryan <mryan@alliancehp.com>
Subject: RE: PIP Request-1646 S. 51st Street

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Good day, Leigh-Anne,
Attached is the revised Public Involvement Plan for this site. Thank you!

Crystal L. Foster
Senior Geologist
Arcadis U.S., Inc.
2100 Georgetown Drive | Suite 402 | Sewickley, PA | 15143 | USA
T +1 724 934 9529
M +1 412 527 2575
www.arcadis.com

From: Leigh-Anne Rainford <LeighAnne.Rainford@phila.gov>
Sent: Wednesday, January 8, 2025 1:36 PM
To: Foster, Crystal <Crystal.Foster@arcadis.com>; Brunt, Larry <Larry.Brunt@arcadis.com>
Cc: cdbrown@pa.gov; Strobridge, Lisa <lstrobridg@pa.gov>; India McGhee <India.McGhee@Phila.gov>; Jane Hwang <Jane.Hwang@Phila.gov>; Aurora Trainor <Aurora.Trainor@phila.gov>; Dawn Kiesewetter <Dawn.Kiesewetter@phila.gov>
Subject: Re: PIP Request-1646 S. 51st Street

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Good afternoon.

Please see the attached letter regarding the PIP for 1646 S. 51st St.

Thank you.

Leigh Anne Rainford, MPH
Program Administrator of Food Protection and Environmental Engineering
Environmental Health Services | Philadelphia Department of Public Health
7801 Essington Avenue | Philadelphia, PA 19153
Phone: (215) 685 – 7497
LeighAnne.Rainford@Phila.gov

Department of Public Health

MEMBER National Environmental Health Association neha EST. 1937

From: Foster, Crystal <Crystal.Foster@arcadis.com>
Sent: Wednesday, December 4, 2024 1:09 PM
To: Cheryl Reilly <Cheryl.Reilly@PHILA.GOV>
Cc: Dawn Kiesewetter <Dawn.Kiesewetter@phila.gov>; cdbrown@pa.gov <cdbrown@pa.gov>; Leigh-Anne Rainford <LeighAnne.Rainford@phila.gov>; India McGhee <India.McGhee@Phila.gov>; cdbrown@pa.gov <cdbrown@pa.gov>; Eric Carlson <ecarlson@alliancehp.com>; Anthony Reitano <areitano@heroldlaw.com>; Brunt, Larry <Larry.Brunt@arcadis.com>; msabetta@pa.gov <msabetta@pa.gov>; Patel, Ragesh <rapatel@pa.gov>
Subject: RE: PIP Request-1646 S. 51st Street

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Good afternoon,
Attached is the Public Involvement Plan for the above-referenced site. Thank you!

-Crystal

Crystal L. Foster
Senior Geologist
Arcadis U.S., Inc.
2100 Georgetown Drive | Suite 402 | Sewickley, PA | 15143 | USA
T +1 724 934 9529
M +1 412 527 2575
www.arcadis.com

ARCADIS

From: Cheryl Reilly <Cheryl.Reilly@PHILA.GOV>
Sent: Monday, August 5, 2024 2:35 PM
To: Foster, Crystal <Crystal.Foster@arcadis.com>
Cc: Dawn Kiesewetter <Dawn.Kiesewetter@phila.gov>; cdbrown@pa.gov; Leigh-Anne Rainford <LeighAnne.Rainford@phila.gov>; India McGhee <India.McGhee@Phila.gov>
Subject: PIP Request-1646 S. 51st Street

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Good Afternoon Ms. Foster,

Please see the attached PIP request for 1646 S. 51st Street.

Thank you.

****

Cheryl Ann Reilly
Health Commissioner's Office
1101 Market Street, 13th Floor
Philadelphia, PA 19107
Cheryl.Reilly@phila.gov

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ARCADIS

Municipal Manager
City of Philadelphia

County Manager
Philadelphia County

Municipal Service Building
1401 John F. Kennedy Blvd
Philadelphia, PA 19107

Arcadis U.S., Inc.
2100 Georgetown Drive
Suite 402
Sewickley
Pennsylvania 15143
Phone: 724 742 9180
www.arcadis.com

Date: February 10, 2025
Our Ref: 30108678
Subject: Notice of Submittal of Act 2 Report
1630 - 1646 South 51st Street
City of Philadelphia
Philadelphia County, Pennsylvania 19143

Dear Municipal and County Managers,

In accordance with the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. 4, No. 1995-2 (Act 2) and on behalf of Alliance 51st Street LLC (Alliance), Arcadis U.S., Inc. is formally notifying you that Alliance is submitting to the Pennsylvania Department of Environmental Protection (PADEP), Southeast Regional Office, a Remedial Investigation Report and Cleanup Plan (report) for the above-referenced site. The report demonstrates that remediation conducted and planned for the site will be in attainment with a combination of Act 2 non-residential Statewide Health Standards and Site-Specific Standards. You will be provided with a copy of the report when it is submitted to PADEP.

A notice of report submittal will also be published in the Philadelphia Inquirer newspaper on February 11, 2025, which serves the City of Philadelphia. In accordance with the January 2025 Public Involvement Plan, publication of this notice in a local newspaper and submittal of the report initiates a 30-day public and municipal comment period. Following the public comment period, a public meeting will be held to present the information in the report. A separate notice will be published that provides details of the public meeting.

If you have any questions or comments, please feel free to contact me.

Sincerely,
Arcadis U.S., Inc.

Crystal Foster
Senior Geologist
Email: crystal.foster@arcadis.com
Direct Line: 724.934.9529

Outlook

Your shipment was delivered 771980584765

From FedEx Tracking <TrackingUpdates@fedex.com>
Date Tue 2/11/2025 10:24 AM
To Zielinski, Shelby <Shelby.Zielinski@arcadis.com>

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Tracking ID	**771980584765**
From	ARCADIS U.S., Inc. 2100 Georgetown Drive Suite 402 SEWICKLEY, PA, US 15143
To	City of Philadelphia 1401 John F Kennedy Blvd PHILADELPHIA, PA, US 19107
Ship date	Mon 2/10/2025 06:17 PM
Number of pieces	1
Total shipment weight	0.50 LB
Service	FedEx Standard Overnight
Reference	30108678
Shipper reference	30108678

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Thank you for your business.

ID 1026

The Philadelphia Inquirer
100 S. INDEPENDENCE MALL W, STE 600, PHILADELPHIA, PA 19106

Affidavit of Publication

On Behalf of:
ARCADIS U S INC
2100 GEORGETOWN DR
SUITE 402
SEWICKLEY, PA 15143

STATE OF PENNSYLVANIA COUNTY OF PHILADELPHIA:

Before the undersigned authority personally appeared the undersigned who, on oath represented a and say: that I am an employee of The Philadelphia Inquirer, LLC, and am authorized to make this affidavit of publication, and being duly sworn, I depose and say:

1. The Philadelphia Inquirer, LLC is the publisher of the Philadelphia Inquirer, with its headquarters at 100 S. Independence Mall West, Suite 600, Philadelphia, PA 19106.
2. The Philadelphia Inquirer is a newspaper that which was established in in the year 1829, since which date said daily newspaper has been continuously published and distributed daily in the City of Philadelphia, count and state aforesaid.
3. The printed notice or publication attached hereto set forth on attached
hereto was published in all regular print editions of
The Philadelphia Inquirer on

Legal Notices

as published in **Inquirer Legals** in the issue(s) of:

2/11/2025

4. Under oath, I state that the following is true and correct, and that neither I nor The Philadelphia Inquirer, LLC have any is interest in the subject matter of the aforesaid notice or advertisement.

Helene Sweeney

Nancy S. Fisher
Notary Public

My Commission Expires:

Commonwealth of Pennsylvania - Notary Seal
Nancy S Fisher, Notary Public
Philadelphia County
My Commission Expires June 27, 2027
Commission Number 1433937

Ad No: 180963
Customer No: 105030

COPY OF ADVERTISEMENT

"Pursuant to the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. 4, No. 1995-2 (Act 2), notice is hereby given that Alliance 51st Street LLC (Alliance) is submitting to the Pennsylvania Department of Environmental Protection (PADEP), Southeast Regional Office, a Remedial Investigation Report and Cleanup Plan (report) for the site located at 1630-1646 South 51st Street, in the City of Philadelphia, Philadelphia County, Pennsylvania. The report demonstrates that remediation conducted and planned for the site will be in attainment with a combination of Act 2 non-residential Statewide Health Standards and Site-Specific Standards.

Publication of this notice and submittal of the report to the municipality initiates a 30-day public comment period on the report. Comments may be submitted to **crystal.foster@arcadis.com.**
Following the public comment period, a public meeting will be held. A separate notice will be published with details of the public meeting."

Appendix A-2: Chromium-Related Correspondences

Newbrough, Alex

From: Brunt, Larry
Sent: Monday, May 6, 2024 5:18 PM
To: Flannery, Rebecca
Subject: RE: 51st Alliance

Rebecca
We were onsite last Monday, April 29th, and collected samples for laboratory analysis for VOCs and SVOCs. We are expecting to receive the results by Monday May 13th. While onsite, we inspected the area and the water with the yellow color is located along the southern portion of the tank containment area for former tanks 7551 and 7550 and the ditch next to the containment area. The water in the northern portion of the tank containment area has no color. We will let you know as soon as we receive the sampling results.
Any questions, let us know.
Thanks,
Larry

From: Flannery, Rebecca <rflannery@pa.gov>
Sent: Monday, May 6, 2024 10:10 AM
To: Brunt, Larry <Larry.Brunt@arcadis.com>
Subject: 51st Alliance

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Larry,
I received another field narrative from Paul Jardel of our Clean Water Program. Can you let me know if/when someone from Arcadis will be going out to investigate the colored water in the containment dike that held the ASTs?

Thank you,
Rebecca Flannery | Geoscientist
Department of Environmental Protection | Southeast Regional Office
2 E. Main Street | Norristown, PA 19401
Phone: 484-250-5779 | Fax: 484-250-5961
www.dep.pa.gov

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Newbrough, Alex

From: Brunt, Larry
Sent: Monday, June 10, 2024 1:11 PM
To: Flannery, Rebecca
Subject: RE: Alliance 51st Street Terminal
Attachments: Table 1 SW VOCSVOC Results.pdf; Table 2 SW Dye Results.pdf; Table 4 202401 GW Cr.pdf; Table 5 New 202405 GW Cr.pdf; Table 6 Soil Cr.pdf; Table 7 Soil splp.pdf; Table3 SW Cr Results.pdf; 2024-5-29_Proposed Temporary Well Locations.pdf

Rebecca,
As we discussed Thursday, Alliance has been actively investigating the source of the discolored (yellow-green) water discovered in the surface water at the site by the Philadelphia Water Authority. The initial step was to construct soil berms across the low lying area on the eastern portion of the site to prevent any discolored water from leaving the site. This has been effective, and no discolored water has flowed off the site. The next step was to identify the type of contaminant and potential source creating the colored water. The information provided by the Philadelphia Water Department (PWD) threw us off track for a while looking for sources of synthetic dyes. As you will recall, the PWD would not provide us with their laboratory data, only a description that the water contained a synthetic dye.

Based upon the information from the PWD, we collected some samples of the water on April 29th to evaluate the potential contaminants and submitted the samples to laboratories for analysis for VOCs, SVOCs and dyes (fluorescein, eosine and rhodamine WT (RWT), sulforhodamine B (SRB) and pyranine dyes). No dyes were detected in the sample. No VOCs other than a low level of acetone were detected in the sample. Similarly, only estimated concentrations below laboratory reporting limits of bis(2-ethylhexyl)phthalate, benzo(b)fluoranthene, and benzo(k)fluoranthene were detected in the SVOC analyses. We also performed some field screening tests using field test strips. During these tests, we identified the presence of chromate. We then submitted a sample of the water (unfiltered) to a laboratory and confirmed that chromium was present in the water. The laboratory sampling results are summarized in Tables 1 - 3.

After determining the type of contaminant, we performed a thorough review of all soil boring logs from the site and identified several locations where stained soil with yellow-green color was observed. The locations appeared to be limited to the soil around former tanks TK-7550 and TK-7551 which were previously used for storage of gasoline and Fuel Oil No. 2 . We also determined that monitoring wells MW-3, MW-4 and MW-7 had a yellowish tint in the water when sampled. We requested the lab to research the analyses completed for lead in January to determine if data could be obtained from the monitoring wells for total chromium. The laboratory method for metals was ICP so the lab went back to review all prior ICP results from the January 2024 sampling event and was able to provide data for all wells except MW-3, MW-4 and MW-7 due to QA/QC issues (see attached results). Chromium was present in wells MW-1, MW-2, MW-5 and MW-8 at concentrations below the non-residential used aquifer MSCs. In MW-9, chromium was detected at a concentration greater than the non-residential used aquifer MSC but below the non-residential non-use aquifer MSC. The results are summarized in Table 4.

After receiving this data, we mobilized to the site on May 30th and collected groundwater samples from wells MW-3, MW-4, MW-7 and MW-9 for analysis for total chromium and hexavalent chromium. The results were received earlier this week and identified the presence of chromium (trivalent and hexavalent) in the groundwater. The concentrations of total chromium were below the non-residential non-use aquifer MSCs but were above the non-residential used aquifer MSCs. The results are summarized in Table 5.

We also performed test pits at three previous boring locations (SB-206, SB-209 and SB-216) where stained soil was identified. The test pits identified the presence of a distinctive layer of discolored soil (yellow-green staining) which started at approximately 3.5 to 5 feet below grade which corresponded to approximately 0-6 inches above the current water table. The stain soil is very distinctive in color and is not present in the first several feet of the soil

column. Further, chromium is not related to any prior uses of the property. As such, the stained soil layer appeared to have been related to historic filling of the area. This is being further evaluated as discussed below. Samples were collected from the stained soil. The analysis of the stained soil confirmed the presence of trivalent and hexavalent chromium. The concentrations of trivalent and hexavalent chromium in the stained soil from SB-206, SB-209 and SB-216 as well as the soil collected from SB-501 and SB-502 were below the non-residential direct contact MSCs and non-residential used aquifer soil to groundwater MSCs. In SB-503 and SB-504, hexavalent chromium was not detected, and trivalent chromium was identified at 230 mg/kg and 987 mg/kg, respectively. The results are summarized in Table 6. SPLP analysis also was performed on the samples from SB-206, SB-209 and SB-216 for hexavalent chromium. The concentrations ranged from 14.4 mg/L to 58.8 mg/l. The results are summarized in Table 7. A figure illustrating the sample locations also is attached.

Based on these findings, we mobilized to the site this past Friday to collect additional groundwater and soil samples from temporary wells and borings being installed to the west of the tank containment area to fully delineate the area of the color-stained soil and along the western property boundary to determine if the colored soil/groundwater extends that far upgradient such that an offsite source could be impacting the site. We should have those results later this week.

In conjunction with the above, we also are researching historical records to determine if this area of Philadelphia was historically filled with material, since the presence of chromium is not related to the previous petroleum terminal operations or the historic operations, lumber and cardboard manufacturing, performed at the site. You mentioned that you have an associate in your office who is very good at researching historic records. Any assistance from her would be greatly appreciated.

Also, as discussed, the chromium impacts will be addressed with the Act 2 case, and we will update the NIR to reflect that. Based upon all the above data and evaluation and any information your office may be able to provide regarding historic records, we will develop a path forward for the chromium. Except for the chromium, we have completed all field work and were getting ready to submit the Act 2 Remedial Investigation Report and Cleanup Plan to you.

We will keep you informed as we receive further information and results. Any questions, let us know.
Thanks,
Larry

From: Flannery, Rebecca <rflannery@pa.gov>
Sent: Tuesday, June 4, 2024 10:55 AM
To: Brunt, Larry <Larry.Brunt@arcadis.com>
Subject: Alliance 51st Street Terminal

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Larry,
I was wondering what type of investigation was performed regarding the green colored water? I just got another call regarding the outcome of it.

Any information would be helpful.

Thank you,
Rebecca Flannery | Geoscientist
Department of Environmental Protection | Southeast Regional Office
2 E. Main Street | Norristown, PA 19401

Table 2
Summary of Surface Water Dye Sampling Results- April 29, 2024
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	SW-1
LAB ID:	H1531
COLLECTION DATE:	4/29/2024
SAMPLE MATRIX:	WATER
DYE	
Fluorescein	ND
Eosine	ND
Rhodamine WT	ND
Sulforhodamine B	ND
Pyranine	ND

Notes:
ND- No dye detected

Table 3
Summary of Surface Water Chromium Sampling Results- April 29, 2024
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSC	Pennsylvania Non-Residential Used Aquifer Groundwater MSC	SW-1			
LAB ID:			L2425154-01			
COLLECTION DATE:			4/29/2024			
SAMPLE MATRIX:			WATER			
ANALYTE	(ug/l)	(ug/l)	Conc	Q	RL	MDL
TOTAL METALS						
Chromium, Total	100000	100	21560		500	89

NOTES:
MSC - Medium Specific Concentration
PADEP - Pennsylvania Department of Environmental Protection
Q - Qualifier
Conc - Concentration
RL - Reporting Limit
MDL - Minimum Detection Limit
Concentrations exceed the Non-Residential Used aquifer MSC

From:	Brunt, Larry
To:	Sabetta, Matthew; Flannery, Rebecca
Cc:	Brown, C David; Patel, Ragesh; Eric Carlson; Anthony J. Reitano Esq. (areitano@heroldlaw.com)
Subject:	RE: Alliance 51st Street Act 2 Discussion
Date:	Thursday, July 11, 2024 8:20:00 AM
Attachments:	2024-7-9 Test Pit Locations_Soil and Temporary Well Locations.pdf Table 1 2024_06 Soil Sampling Results.pdf Table 2 2024_06 Temp Well Results.pdf Test Pit 101.jpg Test Pit 102.jpg Test Pit 103.jpg Test Pit 104.jpg Test Pit 105.jpg RE Alliance 51st Street Terminal.msg 1929 photo Geo W Smith woodworking.pdf 1929 photo Geo W Smith woodworking 2.pdf image001.png image003.png image004.png image005.png image006.png image007.png

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Rebecca and Matt,

We are following up on the recent e-mails and telephone calls, and are providing the summary below for the Alliance 51st Street site. This may help with the transition of the Act 2 case.

As I mentioned to Matt on Monday, we would like to set up a call with PADEP, which would also include our client and counsel (included on email), to review the updated site investigation information for the recently identified chromium issue and the status of the Act 2 case. We can also discuss the revised NIR for the Act 2 case and how to address that given our findings summarized below. Please let us know some dates and times for the call.

By way of background, attached is the email that I sent to Rebecca on June 10th which describes the ongoing investigation activities into the chromium issue. The presence of chromium is not related to the previous petroleum terminal operations or the historic operations, lumber and cardboard manufacturing, performed at the site. We believe the presence of chromium is a background issue associated with historic filling of the general area. We have been researching historical records and performing additional investigation activities to identify the extent of the filling. As indicated in the June 10th email, we installed and sampled 11 additional soil borings and 7 temporary wells on the western and northern portions of the site on June 7th. We identified stained soil in four of those additional borings (SB-505, SB-506, SB-508 and SB-513) at depths starting at a few feet below grade and extending to 10-15 feet below grade. Borings SB-506 and SB-508 were located on the northern and western property boundaries, respectively, indicating the stained soil beginning at a few feet below grade is offsite as well. Soil samples were collected at 0 to 6 inches above the water table. The sampling results for these borings and temporary wells are summarized in the attached tables. The soil sampling identified hexavalent chromium in only one boring, SB-511, at a concertation greater than the Used Aquifer Non-Residential Soil to Groundwater MSC. Total chromium was detected in two groundwater samples, TW-505 and TW-511, at concentrations greater than the Non-Residential Used Aquifer MSC. The boring and temporary well locations are illustrated on the attached figure.

After reviewing these results and the previous findings, we installed test pits on the southern

property boundary on July 3rd to determine the extent of the historic filling on the southern portion of the site. We installed five test pits (TP-101 to TP-105) along the southern property boundary and identified the stained soil layer in each test pit which was encountered a few feet below grade and varied in thickness in each test pit. At one location, TP-105, the stained soil layer started at approximately 3 feet below grade and extended to the bottom of the test pit at 17 feet below grade. The test pits confirmed that the presence of the chromium is a background issue associated with historic filling activities that were occurring on and off the site. A few photographs of the test pits illustrating the stained soil layer are attached. In addition, a figure illustrating the approximate locations of the test pits is attached. The figure also illustrates the borings and test pits which contained the historic fill layer and stained soil during our recent and previous investigation activities.

During a previous conversation with Rebecca regarding the chromium investigation at the site, we mentioned that we were researching historical records to determine if this area of Philadelphia was historically filled with material. At that time, Rebecca mentioned that there is an associate in your office who is very good at researching historical records. Was she able to identify any records of historic filling in the area?

We were able to find a few historic aerial photographs from 1929 (see attached) that illustrate the low-lying area on site where the stained soil is primarily being identified. The aerial photo also illustrates the sand mining operation on the other site of the railroad tracks. This area was subsequently filled and is now Bartram's Gardens.
We can discuss these findings further on our call. If you have any questions in the meantime, let us know.
Thanks,
Larry

Lawrence G. Brunt, P.E.
Principal Engineer
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www.arcadis.com

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From: Sabetta, Matthew <msabetta@pa.gov>

Sent: Monday, July 1, 2024 1:45 PM
To: Brunt, Larry <Larry.Brunt@arcadis.com>
Cc: Brown, C David <cdbrown@pa.gov>; Patel, Ragesh <rapatel@pa.gov>
Subject: Alliance 51st Street Act 2 Discussion

You don't often get email from msabetta@pa.gov. Learn why this is important

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Hi Larry,

I am following up on Rebecca Flannery's email from earlier. As she stated, I am taking over the site for her and would like to get an update on site activities. Additionally, I would also like to discuss the planned timeframe for Act 2 submissions for the site. Let me know what your availability for a call is like next week when you return to the office.

Matt

Matthew Sabetta | Licensed Professional Geologist
Department of Environmental Protection | Southeast Regional Office
2 E. Main Street | Norristown, PA 19401
Phone: 484.250.5788 | Fax: 484.250.5961
www.dep.pa.gov

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Table 2
Summary of Groundwater Sampling Results- June 07, 2024
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSCs Criteria	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs Criteria	TW-505				TW-506				TW-509				TW-511			
LAB ID:			L2432185-03				L2432185-04				L2432185-05				L2432185-06			
COLLECTION DATE:			6/7/2024				6/7/2024				6/7/2024				6/7/2024			
SAMPLE MATRIX:			WATER				WATER				WATER				WATER			
ANALYTE	(ug/l)	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
DISSOLVED METALS																		
Chromium, Dissolved	100000	100	137.9		1	0.178	0.272	J	1	0.178	7.087		1	0.178	3316		100	17.8
TOTAL METALS																		
Chromium, Total	100000	100	7744		100	17.8	8.149		5	0.89	15.98		5	0.89	13440		200	35.6
GENERAL CHEMISTRY																		
Chromium, Hexavalent			3	J	10	3	3	U	10	3	3	U	10	3	1330		50	15
Chromium, Hexavalent (Unfiltered)			5	J	10	3	18		10	3	19		10	3	2460		100	30

SAMPLE ID:	Pennsylvania Non-Residential Non-Use Aquifer Groundwater MSCs Criteria	Pennsylvania Non-Residential Used Aquifer Groundwater MSCs Criteria	TW-512				TW-513				TW-514				DUP-GW			
LAB ID:			L2432185-02				L2432185-01				L2432185-08				L2432185-07			
COLLECTION DATE:			6/7/2024				6/7/2024				6/7/2024				6/7/2024			
SAMPLE MATRIX:			WATER				WATER				WATER				WATER			
ANALYTE	(ug/l)	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
DISSOLVED METALS																		
Chromium, Dissolved	100000	100	3.496		1	0.178	2.714		1	0.178	0.7002	J	1	0.178	0.8442	J	1	0.178
TOTAL METALS																		
Chromium, Total	100000	100	45.39		5	0.89	92.67		5	0.89	62		5	0.89	6.353		5	0.89
GENERAL CHEMISTRY																		
Chromium, Hexavalent			3	U	10	3	3	U	10	3	3	J	10	3	3	U	10	3
Chromium, Hexavalent (Unfiltered)			3	U	10	3	3	U	10	3	30		10	3	7	J	10	3

NOTES:
MSC - Medium Specific Concentration
PADEP - Pennsylvania Department of Environmental Protection
Q - Qualifier
Conc - Concentration
RL - Reporting Limit
MDL - Minimum Detection Limit
U - Compound was undetected at the listed laboratory method detection limit.
Concentrations reported in miligrams per kilogram (mg/kg)
Concentrations exceed the Non-Residential Used aquifer MSC

From: Brunt, Larry <Larry.Brunt@arcadis.com>
Sent: Wednesday, July 17, 2024 4:11 PM
To: Sabetta, Matthew <msabetta@pa.gov>
Subject: [External] Alliance 51st Street

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Matt,
I understand you visited the site today. It sounds like the visit went well. Were you able to see everything that you needed?
I noticed that our meeting was moved up to tomorrow afternoon. Is there anything specific that we need to discuss prior to the meeting? I am available tomorrow morning if needed.
Let me know.
Thanks,
Larry

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From: Brunt, Larry
To: Sabetta, Matthew
Subject: RE: [External] Alliance 51st Street
Date: Thursday, July 18, 2024 7:51:00 AM
Attachments: L2432189.pdf
image001.png
image003.png
image004.png
image005.png
image006.png
H1531 Arcadis Alliance51st 01.pdf
L2429996.pdf
L2429997.pdf
L2403900.pdf
L2423395.pdf
L2425154.pdf
L2432185.pdf
image007.png

Matt
As requested, attached are the laboratory reports for the sampling that was performed in April, May and June. The files are saved based on the laboratory numbers which are provided on each of the tables that were provided previously. If you have any questions, let me know.
Thanks,
Larry

From: Sabetta, Matthew <msabetta@pa.gov>
Sent: Thursday, July 18, 2024 9:23 AM
To: Brunt, Larry <Larry.Brunt@arcadis.com>
Subject: RE: [External] Alliance 51st Street

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Hi Larry,

The site visit did go well except for the heat. I do not think that there is anything specific that we would need to discuss prior to the call. I was curious if you might be able to share the laboratory reports for the May and June data tables that you shared previously.

Matt

Matthew Sabetta | Licensed Professional Geologist
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2 E. Main Street | Norristown, PA 19401
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From: Brunt, Larry
To: Sabetta, Matthew
Subject: Alliance 51st Street - Surficial Soil Sampling
Date: Tuesday, July 30, 2024 5:43:00 AM
Attachments: image001.png
image003.png
image004.png
image005.png
image006.png
image007.png

Matt

We wanted to let you know that this Friday we will be collecting surficial soil samples as discussed in our previous conference call. In reviewing current site conditions, it appears that stained soil at the surface is now apparent in areas where the impacted groundwater (with yellow color) puddled after heavy rain events. We are planning on collecting four samples from the areas of staining and four samples from the general former tank containment area where the historic fill layer was identified where we previously obtained samples at depth ~~but~~ where there is no staining on the surface. The results of the samples from the general area can then be used to compare concentrations in the surface soil and the impacts created by the groundwater.
If you have any questions about the sampling, please let us know.

Thanks,
Larry

Lawrence G. Brunt, P.E.
Principal Engineer
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From:	Brunt, Larry
To:	Sabetta, Matthew
Cc:	Patel, Ragesh; Brown, C David; Eric Carlson; Anthony J. Reitano Esq. (areitano@heroldlaw.com)
Subject:	Alliance 51st Street Laboratory Reports
Date:	Tuesday, August 27, 2024 7:13:00 AM
Attachments:	image001.png image003.png image004.png image005.png image006.png L2443629_Surficial Onsite Soil Sampling_2024-8-2.pdf L2445674_Split Sampling_2024-8-13.pdf image007.png

---

Matt,

As requested during our call last week, attached are the laboratory reports for the surficial soil sampling performed at the site on August 2nd and the split sampling performed with PADEP on August 13th.

If you have any questions, let us know.

Thanks,

Larry

Lawrence G. Brunt, P.E.
Principal Engineer
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M. + 1 908 391 4371
F. +1 908 253 3295
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From:	Brunt, Larry
To:	Sabetta, Matthew
Cc:	Patel, Ragesh; Brown, C David; Eric Carlson; Anthony J. Reitano Esq. (areitano@heroldlaw.com)
Subject:	Alliance 51st Street - Follow up items
Date:	Tuesday, December 10, 2024 3:09:00 PM
Attachments:	image001.png image003.png image004.png image005.png image006.png Figure 1 Proposed Sample Locations 2024-12-4 sec.pdf Table 3 2021 11 04 Soil Pile results compared to MDL.pdf Table 4 2021 11 04 Test Pit results compared to MDL.pdf Attachment 1 Excerpts from Phase II Report.pdf image007.png

---

Matt,

I am following up on two items that were discussed in our call on November 20th. The items include the additional delineation of hexavalent chromium in the soil at the Site and the previous sampling of the soil pile on the Site.

As discussed, there is one surficial soil sample location, S-604, which requires delineation. The concentration of hexavalent chromium (5,710 mg/kg) in the sample was greater than the Non-Residential MSC for Surface Soil (0-2 feet), but below the Non-Residential MSC for Subsurface Soil (2-15 feet). Although this sample will eventually be under approximately 10 feet of fill after the redevelopment, PADEP requested that additional delineation should be performed, and samples also should be collected along the 51st Street property boundary as well. Accordingly, the current plans are to collect horizontal delineation samples around S-604 to the north, east and south, and a vertical delineation sample at S-604. In addition, three samples will be collected along the 51st Street property boundary and one sample will be collected along the eastern property boundary. The borings will be installed to the top of the water table and screened for the presence of yellow staining. Sample depth will be biased to any staining. If no staining is present, samples will be collected at the surface and the 6-inch interval above the water table. The proposed sampling locations are illustrated on the attached Figure 1 along with the locations where previous soil samples were collected for hexavalent or total chromium analysis. Please review and let us know if you have any questions or comments on the proposed sampling. We have scheduled the sampling for the week of January 6, 2025.

With regard to the soil pile on Site, the soil pile was sampled in 2021 following PADEP's Management of Fill Policy to determine if the soil could be reused at the Site during redevelopment. Sixteen (16) soil borings and twelve (12) test pits were installed into the approximately 20,000 to 25,000 cubic yard soil pile. The soil borings were installed from the top of the pile to a depth of 15 feet, which corresponded roughly to the average estimated height of the soil pile. The soil borings were installed using direct-push drilling techniques. The test pits were installed into the sides of the pile using a backhoe. The sample locations are illustrated on the attached figure (Figure 2). An excerpt from the Phase II report detailing the sampling methodology is attached (Attachment 1).

The borings were separated into four groups and three samples containing the highest PID readings from the 12 samples collected from each group were submitted for VOC analysis to a certified laboratory. Composite samples were also creating by mixing shallow, intermediate, and deep samples, respectively from each group. The composite samples were submitted under chain of custody protocol to a certified laboratory for analysis for polychlorinated biphenyls (PCBs), semi-volatile organic compounds
(SVOCs), and metals.

VOC concentrations were well below the clean fill concentration limits criteria. With the exception of benzo(a)pyrene, the SVOC concentrations were below the clean fill concentration limits criteria. Benzo(a)pyrene was detected in one sample (Comp-12) at a concentration greater than the clean fill concentration limits but below the regulated fill concentration limits. PCB concentrations also were well below the Arochlor specific clean fill concentration limits criteria. In addition, the total metals concentrations also were below the current clean fill concentration limits criteria. The sample results for the soil borings are summarized in attached Table 3 and the results for the test pits are summarized in attached Table 4.

In reviewing the analytical results for total chromium, the concentrations ranged from 20.6 mg/kg in Comp-5 to 155 mg/kg in Comp-12. If you conservatively assumed that all of the total chromium consisted of hexavalent chromium, which is unlikely, the concentrations would still be below the Non-Residential Soil MSCs.

If you have any questions about the sampling results or proposed sampling, please let us know.
Thanks,
Larry

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Professional Registration / PE-NJ

Attachment 1
Excerpts from 2021 Phase II Report

SOIL INVESTIGATION

Sample Collection

Soil Pile

On October 25, 2021, sixteen (16) soil borings and twelve (12) test pits were installed into an approximately 20,000 to 25,000 cubic yard soil pile located at the Site. The soil borings were installed from the top of the pile to a depth of 15 feet, which corresponded roughly to the average estimated height of the soil pile. The soil borings were installed by Hawk using Geoprobe direct-push drilling techniques. The test pits were installed into the sides of the pile by Hawk using a backhoe. The sample locations are illustrated on Figure 2.

The borings and test pits were installed to characterize the material in the pile for potential reuse onsite or offsite disposal. The borings were broken into four groups, B-1 to B-4, B-5 to B-8, B-9 to B-12 and B-13 to B-16. Twelve discrete samples were collected from each group, 3 samples per boring. Each boring was separated into three different intervals (0-5 ft, 5-10 ft, and 10-15 ft) based on the Geoprobe macrocores and a discrete 6-inch sample was collected from each interval based on PID readings and visual observations. Three samples containing the highest PID readings from the 12 samples collected from each group were submitted for VOC analysis to a Pennsylvania certified laboratory. Composite samples were also creating by mixing shallow, intermediate, and deep samples, respectively from each group. Comp-1 through Comp-3 were collected from boring B-1 through B-4 from the shallow, intermediate, and deep zones, respectively. Comp-4 through Comp-6 were collected from boring B-5 through B-8 from the shallow, intermediate, and deep zones, respectively. Comp-7 through Comp-9 were collected from boring B-9 through B-12 from the shallow, intermediate, and deep zones, respectively. Comp-10 through Comp-12 were collected from boring B-13 through B-16 from the shallow, intermediate, and deep zones, respectively. The composite samples were submitted under chain of custody protocol to a Pennsylvania certified laboratory for analysis for polychlorinated biphenyls (PCBs), semi-volatile organic compounds (SVOCs), and metals.

The 12 test pits were evenly spaced around the sides of the excavation. Hawk under the supervision of Arcadis personnel utilized a backhoe to remove approximately 5 ft of soil at each location. The test pits generally consisted of sands with cobbles and stone throughout. Bricks, concrete, tile, and other debris were also found throughout the test pits, as well as on some surface areas of the pile. Soil samples were collected from each test pit based on PID readings and visual observations. Samples from the 12 test pits exhibiting the three highest PID readings were submitted for VOC analysis at a Pennsylvania certified laboratory. Three composite samples, Comp-13 through Comp-15, were also collected from TP-1 to TP-4, TP-5 to TP-8, and TP-9 to TP-12, respectively. The composite samples were submitted under chain of custody protocol to a Pennsylvania certified laboratory for analysis for PCBs, SVOCs, and metals.

During the sampling, Arcadis personnel screened each boring and test pit for the presence of contamination using a PID and visual/olfactory observations. There were no signs of obvious contamination or odors. The PID readings ranged from non-detect to 19.8 ppm.

After completion of the soil investigation, the boreholes and test pits were backfilled with the drill cuttings. The sampling locations are illustrated on Figure 2 and the boring logs are provided in Appendix A.

Attachment 1
Excerpts from 2021 Phase II Report

Analytical Results

Soil Pile

VOCs were not detected in the samples collected from the test pits (TP-1, TP-5 and TP-11) with the exception of chloroform which was identified at estimated concentrations ranging from 0.00016 mg/kg (TP-11) to 0.00024 mg/kg (TP-1). The concentrations were well below the clean fill concentration limits criteria.

In the soil borings, only low levels of acetone at B-7 (6.5-7), B-9 (7.5-8) and B-12 (4.5-5), ethylbenzene at B-12 (4.5-5), and chloroform at multiple locations were detected. The concentrations were well below the clean fill concentration limits criteria.

Low levels of various SVOCs were detected in the composite samples from the soil borings (Comp-1 to Comp-12) and the test pits (Comp-13 to Comp-15). With the exception of benzo(a)pyrene, the concentrations were below the clean fill concentration limits criteria. Benzo(a)pyrene was detected in Comp-12 at a concentration of 0.86 mg/kg which is above the clean fill concentration limits criteria of 0.58 mg/kg but below the regulated fill concentration limits criteria of 12 mg/kg.

PCBs were not detected in 11 of the 15 composite samples collected. PCBs were detected in samples Comp-4, Comp-5, Comp-6 and Comp-12 at concentrations of an estimated 0.016 mg/kg, an estimated 0.00396 mg/kg, 0.0408 mg/kg, and an estimated 0.0153 mg.kg. The concentrations were well below the Arochlor specific clean fill concentration limits criteria.

With the exception of vanadium, the total metals concentrations were below the clean fill concentration limits criteria. Vanadium was detected consistently in all samples at concentrations ranging from 23.6 mg/kg in Comp-2 and Comp-8 to 36 mg/kg in Comp-13. The concentrations were above the clean fill concentration limits criteria of 15 mg/kg but below the regulated fill concentration limits criteria of 220 mg/kg. Based on the consistent results in all samples, the vanadium concentrations are likely related to background conditions.

The sample results for the soil borings are summarized in Table 3 and the results for the test pits are summarized in Table 4. The laboratory reports are provided in Appendix C.

Table 3
Summary of Soil Pile Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:			B-1 (14-14.5)				B-12 (4.5-5)				B-12 (5.5-6)				B-13 (4.5-5)				B-14 (9.5-10)				B-15 (12-12.5)				B-2 (9.5-10)				B-3 (4.5-5)				B-7 (10-10.5)				B-7 (6.5-7)			
LAB ID:	Pennsylvania Clean Fill Concentration Limits Criteria	Pennsylvania Regulated Fill Concentration Limits Criteria	L2158502-01				L2158502-08				L2158502-09				L2158502-10				L2158502-11				L2158502-12				L2158502-02				L2158502-03				L2158502-05				L2158502-04			
COLLECTION DATE:			10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021			
SAMPLE DEPTH:			14.0-14.5				4.5-5.0				5.5-6.0				4.5-5.0				9.5-10.0				12.0-12.5				9.5-10.0				4.5-5.0				10.0-10.5				6.5-7.0			
SAMPLE MATRIX:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
ANALYTE	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY EPA 5035																																										
1,1,1-Trichloroethane	7.2	7.2	<0.00019	U	0.00057	0.00019	<0.00028	U	0.00084	0.00028	<0.00027	U	0.00081	0.00027	<0.00017	U	0.00051	0.00017	<0.0002	U	0.0006	0.0002	<0.0002	U	0.0006	0.0002	<0.00024	U	0.00073	0.00024	<0.00028	U	0.00083	0.00028	<0.0002	U	0.00061	0.0002	<0.00027	U	0.00081	0.00027
1,1,2,2-Tetrachloroethane	0.026	0.13	<0.00019	U	0.00057	0.00019	<0.00028	U	0.00084	0.00028	<0.00027	U	0.00081	0.00027	<0.00017	U	0.00051	0.00017	<0.0002	U	0.0006	0.0002	<0.0002	U	0.0006	0.0002	<0.00024	U	0.00073	0.00024	<0.00027	U	0.00083	0.00027	<0.0002	U	0.00061	0.0002	<0.00027	U	0.00081	0.00027
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	10000	<0.00079	U	0.0046	0.00079	<0.0012	U	0.0067	0.0012	<0.0011	U	0.0064	0.0011	<0.00071	U	0.0041	0.00071	<0.00083	U	0.0048	0.00083	<0.00084	U	0.0048	0.00084	<0.001	U	0.0059	0.001	<0.0011	U	0.0066	0.0011	<0.00085	U	0.0049	0.00085	<0.0011	U	0.0065	0.0011
1,1,2-Trichloroethane	0.15	0.15	<0.0003	U	0.0011	0.0003	<0.00045	U	0.0017	0.00045	<0.00043	U	0.0016	0.00043	<0.00027	U	0.001	0.00027	<0.00032	U	0.0012	0.00032	<0.00032	U	0.0012	0.00032	<0.00039	U	0.0015	0.00039	<0.00044	U	0.0016	0.00044	<0.00033	U	0.0012	0.00033	<0.00043	U	0.0016	0.00043
1,1-Dichloroethane	0.75	3.9	<0.00016	U	0.0011	0.00016	<0.00024	U	0.0017	0.00024	<0.00023	U	0.0016	0.00023	<0.00015	U	0.001	0.00015	<0.00017	U	0.0012	0.00017	<0.00017	U	0.0012	0.00017	<0.00021	U	0.0015	0.00021	<0.00024	U	0.0016	0.00024	<0.00018	U	0.0012	0.00018	<0.00024	U	0.0016	0.00024
1,1-Dichloroethene	0.19	0.19	<0.00027	U	0.0011	0.00027	<0.0004	U	0.0017	0.0004	<0.00038	U	0.0016	0.00038	<0.00024	U	0.001	0.00024	<0.00028	U	0.0012	0.00028	<0.00029	U	0.0012	0.00029	<0.00035	U	0.0015	0.00035	<0.00039	U	0.0016	0.00039	<0.00029	U	0.0012	0.00029	<0.00039	U	0.0016	0.00039
1,2,3-Trichlorobenzene			<0.00037	U	0.0023	0.00037	<0.00054	U	0.0034	0.00054	<0.00052	U	0.0032	0.00052	<0.00033	U	0.002	0.00033	<0.00038	U	0.0024	0.00038	<0.00039	U	0.0024	0.00039	<0.00047	U	0.0029	0.00047	<0.00053	U	0.0033	0.00053	<0.0004	U	0.0024	0.0004	<0.00052	U	0.0032	0.00052
1,2,4-Trichlorobenzene	27	27	<0.00031	U	0.0023	0.00031	<0.00046	U	0.0034	0.00046	<0.00044	U	0.0032	0.00044	<0.00028	U	0.002	0.00028	<0.00032	U	0.0024	0.00032	<0.00033	U	0.0024	0.00033	<0.0004	U	0.0029	0.0004	<0.00045	U	0.0033	0.00045	<0.00033	U	0.0024	0.00033	<0.00044	U	0.0032	0.00044
1,2-Dibromo-3-chloropropane	0.0092	0.0092	<0.0011	U	0.0034	0.0011	<0.0017	U	0.005	0.0017	<0.0016	U	0.0048	0.0016	<0.001	U	0.0031	0.001	<0.0012	U	0.0036	0.0012	<0.0012	U	0.0036	0.0012	<0.0015	U	0.0044	0.0015	<0.0016	U	0.005	0.0016	<0.0012	U	0.0037	0.0012	<0.0016	U	0.0049	0.0016
1,2-Dibromoethane	0.0012	0.0012	<0.00033	U	0.00057	0.00033	<0.00049	U	0.00084	0.00049	<0.00047	U	0.00081	0.00047	<0.0003	U	0.00051	0.0003	<0.00035	U	0.0006	0.00035	<0.00035	U	0.0006	0.00035	<0.00043	U	0.00073	0.00043	<0.00048	U	0.00083	0.00048	<0.00036	U	0.00061	0.00036	<0.00048	U	0.00081	0.00048
1,2-Dichlorobenzene	59	59	<0.00016	U	0.0023	0.00016	<0.00024	U	0.0034	0.00024	<0.00023	U	0.0032	0.00023	<0.00015	U	0.002	0.00015	<0.00017	U	0.0024	0.00017	<0.00017	U	0.0024	0.00017	<0.00021	U	0.0029	0.00021	<0.00024	U	0.0033	0.00024	<0.00018	U	0.0024	0.00018	<0.00023	U	0.0032	0.00023
1,2-Dichloroethane	0.1	0.1	<0.00029	U	0.0011	0.00029	<0.00043	U	0.0017	0.00043	<0.00041	U	0.0016	0.00041	<0.00026	U	0.001	0.00026	<0.00031	U	0.0012	0.00031	<0.00031	U	0.0012	0.00031	<0.00038	U	0.0015	0.00038	<0.00042	U	0.0016	0.00042	<0.00032	U	0.0012	0.00032	<0.00042	U	0.0016	0.00042
1,2-Dichloroethene, Total			<0.00016	U	0.0011	0.00016	<0.00023	U	0.0017	0.00023	<0.00022	U	0.0016	0.00022	<0.00014	U	0.001	0.00014	<0.00016	U	0.0012	0.00016	<0.00016	U	0.0012	0.00016	<0.0002	U	0.0015	0.0002	<0.00023	U	0.0016	0.00023	<0.00017	U	0.0012	0.00017	<0.00022	U	0.0016	0.00022
1,2-Dichloropropane	0.11	0.11	<0.00014	U	0.0011	0.00014	<0.00021	U	0.0017	0.00021	<0.0002	U	0.0016	0.0002	<0.00013	U	0.001	0.00013	<0.00015	U	0.0012	0.00015	<0.00015	U	0.0012	0.00015	<0.00018	U	0.0015	0.00018	<0.00021	U	0.0016	0.00021	<0.00015	U	0.0012	0.00015	<0.0002	U	0.0016	0.0002
1,3-Dichlorobenzene	61	61	<0.00017	U	0.0023	0.00017	<0.00025	U	0.0034	0.00025	<0.00024	U	0.0032	0.00024	<0.00015	U	0.002	0.00015	<0.00018	U	0.0024	0.00018	<0.00018	U	0.0024	0.00018	<0.00022	U	0.0029	0.00022	<0.00024	U	0.0033	0.00024	<0.00018	U	0.0024	0.00018	<0.00024	U	0.0032	0.00024
1,3-Dichloropropene, Total	0.13		<0.00018	U	0.00057	0.00018	<0.00026	U	0.00084	0.00026	<0.00025	U	0.00081	0.00025	<0.00016	U	0.00051	0.00016	<0.00019	U	0.0006	0.00019	<0.00019	U	0.0006	0.00019	<0.00023	U	0.00073	0.00023	<0.00026	U	0.00083	0.00026	<0.00019	U	0.00061	0.00019	<0.00026	U	0.00081	0.00026
1,4-Dichlorobenzene	10	10	<0.00019	U	0.0023	0.00019	<0.00029	U	0.0034	0.00029	<0.00028	U	0.0032	0.00028	<0.00018	U	0.002	0.00018	<0.0002	U	0.0024	0.0002	<0.00021	U	0.0024	0.00021	<0.00025	U	0.0029	0.00025	<0.00028	U	0.0033	0.00028	<0.00021	U	0.0024	0.00021	<0.00028	U	0.0032	0.00028
1,4-Dioxane	0.084	0.42	<0.04	U	0.091	0.04	<0.059	U	0.13	0.059	<0.056	U	0.13	0.056	<0.036	U	0.082	0.036	<0.042	U	0.095	0.042	<0.042	U	0.096	0.042	<0.052	U	0.12	0.052	<0.058	U	0.13	0.058	<0.043	U	0.098	0.043	<0.057	U	0.13	0.057
2-Butanone	76	76	<0.0025	U	0.011	0.0025	<0.0037	U	0.017	0.0037	<0.0036	U	0.016	0.0036	<0.0023	U	0.01	0.0023	<0.0026	U	0.012	0.0026	<0.0027	U	0.012	0.0027	<0.0032	U	0.015	0.0032	<0.0037	U	0.016	0.0037	<0.0027	U	0.012	0.0027	<0.0036	U	0.016	0.0036
2-Hexanone	1.6	6.4	<0.0013	U	0.011	0.0013	<0.002	U	0.017	0.002	<0.0019	U	0.016	0.0019	<0.0012	U	0.01	0.0012	<0.0014	U	0.012	0.0014	<0.0014	U	0.012	0.0014	<0.0017	U	0.015	0.0017	<0.002	U	0.016	0.002	<0.0014	U	0.012	0.0014	<0.0019	U	0.016	0.0019
4-Methyl-2-pentanone	51	140	<0.0014	U	0.011	0.0014	<0.0022	U	0.017	0.0022	<0.0021	U	0.016	0.0021	<0.0013	U	0.01	0.0013	<0.0015	U	0.012	0.0015	<0.0015	U	0.012	0.0015	<0.0019	U	0.015	0.0019	<0.0021	U	0.016	0.0021	<0.0016	U	0.012	0.0016	<0.0021	U	0.016	0.0021
Acetone	430	1200	<0.011	U	0.028	0.011	0.033	J	0.042	0.017	<0.016	U	0.04	0.016	<0.01	U	0.026	0.01	<0.012	U	0.03	0.012	<0.012	U	0.03	0.012	<0.015	U	0.037	0.015	<0.016	U	0.041	0.016	<0.012	U	0.031	0.012	0.022	J	0.041	0.016
Benzene	0.13	0.13	<0.00019	U	0.00057	0.00019	<0.00028	U	0.00084	0.00028	<0.00027	U	0.00081	0.00027	<0.00017	U	0.00051	0.00017	<0.0002	U	0.0006	0.0002	<0.0002	U	0.0006	0.0002	<0.00024	U	0.00073	0.00024	<0.00027	U	0.00083	0.00027	<0.0002	U	0.00061	0.0002	<0.00027	U	0.00081	0.00027
Bromochloromethane	1.6	1.6	<0.00023	U	0.0023	0.00023	<0.00034	U	0.0034	0.00034	<0.00033	U	0.0032	0.00033	<0.00021	U	0.002	0.00021	<0.00024	U	0.0024	0.00024	<0.00025	U	0.0024	0.00025	<0.0003	U	0.0029	0.0003	<0.00034	U	0.0033	0.00034	<0.00025	U	0.0024	0.00025	<0.00033	U	0.0032	0.00033
Bromodichloromethane	2.7	2.7	<0.00012	U	0.00057	0.00012	<0.00018	U	0.00084	0.00018	<0.00018	U	0.00081	0.00018	<0.00011	U	0.00051	0.00011	<0.00013	U	0.0006	0.00013	<0.00013	U	0.0006	0.00013	<0.00016	U	0.00073	0.00016	<0.00018	U	0.00083	0.00018	<0.00013	U	0.00061	0.00013	<0.00018	U	0.00081	0.00018
Bromoform	3.5	3.5	<0.00028	U	0.0046	0.00028	<0.00041	U	0.0067	0.00041	<0.0004	U	0.0064	0.0004	<0.00025	U	0.0041	0.00025	<0.00029	U	0.0048	0.00029	<0.0003	U	0.0048	0.0003	<0.00036	U	0.0059	0.00036	<0.00041	U	0.0066	0.00041	<0.0003	U	0.0049	0.0003	<0.0004	U	0.0065	0.0004
Bromomethane	0.54	0.54	<0.00066	U	0.0023	0.00066	<0.00098	U	0.0034	0.00098	<0.00094	U	0.0032	0.00094	<0.0006	U	0.002	0.0006	<0.00069	U	0.0024	0.00069	<0.0007	U	0.0024	0.0007	<0.00085	U	0.0029	0.00085	<0.00096	U	0.0033	0.00096	<0.00071	U	0.0024	0.00071	<0.00094	U	0.0032	0.00094
Carbon disulfide	130	530	<0.0052	U	0.011	0.0052	<0.0076	U	0.017	0.0076	<0.0073	U	0.016	0.0073	<0.0047	U	0.01	0.0047	<0.0054	U	0.012	0.0054	<0.0055	U	0.012	0.0055	<0.0067	U	0.015	0.0067	<0.0075	U	0.016	0.0075	<0.0056	U	0.012	0.0056	<0.0074	U	0.016	0.0074
Carbon tetrachloride	0.26	0.26	<0.00026	U	0.0011	0.00026	<0.00039	U	0.0017	0.00039	<0.00037	U	0.0016	0.00037	<0.00024	U	0.001	0.00024	<0.00027	U	0.0012	0.00027	<0.00028	U	0.0012	0.00028	<0.00034	U	0.0015	0.00034	<0.00038	U	0.0016	0.00038	<0.00028	U	0.0012	0.00028	<0.00037	U	0.0016	0.00037
Chlorobenzene	6.1	6.1	<0.00014	U	0.00057	0.00014	<0.00021	U	0.00084	0.00021	<0.0002	U	0.00081	0.0002	<0.00013	U	0.00051	0.00013	<0.00015	U	0.0006	0.00015	<0.00015	U	0.0006	0.00015	<0.00019	U	0.00073	0.00019	<0.00021	U	0.00083	0.00021	<0.00016	U	0.00061	0.00016	<0.00021	U	0.00081	0.00021
Chloroethane	5.4	26	<0.00051	U	0.0023	0.00051	<0.00076	U	0.0034	0.00076	<0.00073	U	0.0032	0.00073	<0.00046	U	0.002	0.00046	<0.00054	U	0.0024	0.00054	<0.00054	U	0.0024	0.00054	<0.00066	U	0.0029	0.00066	<0.00075	U	0.0033	0.00075	<0.00056	U	0.0024	0.00056	<0.00074	U	0.0032	0.00074
Chloroform	2	2	<0.00016	U	0.0017	0.00016	0.0004	J	0.0025	0.00024	0.00043	J	0.0024	0.00022	0.00028	J	0.0015	0.00014	0.00028	J	0.0018	0.00017	0.00032	J	0.0018	0.00017	0.00035	J	0.0022	0.0002	0.00042	J	0.0025	0.00023	0.0003	J	0.0018	0.00017	0.00047	J	0.0024	0.00023
Chloromethane	0.38	0.38	<0.0011	U	0.0046	0.0011	<0.0016	U	0.0067	0.0016	<0.0015	U	0.0064	0.0015	<0.00096	U	0.0041	0.00096	<0.0011	U	0.0048	0.0011	<0.0011	U	0.0048	0.0011	<0.0014	U	0.0059	0.0014	<0.0015	U	0.0066	0.0015	<0.0011	U	0.0049	0.0011	<0.0015	U	0.0065	0.0015
cis-1,2-Dichloroethene	1.6	1.6	<0.0002	U	0.0011	0.0002	<0.00029	U	0.0017	0.00029	<0.00028	U	0.0016	0.00028	<0.00018	U	0.001	0.00018	<0.00021	U	0.0012	0.00021	<0.00021	U	0.0012	0.00021	<0.00026	U	0.0015	0.00026	<0.00029	U	0.0016	0.00029	<0.00021	U	0.0012	0.00021	<0.00028	U	0.0016	0.00028
cis-1,3-Dichloropropene			<0.00018	U	0.00057	0.00018	<0.00026	U	0.00084	0.00026	<0.00025	U	0.00081	0.00025	<0.00016	U	0.00051	0.00016	<0.00019	U	0.0006	0.00019	<0.00019	U	0.0006	0.00019	<0.00023	U	0.00073	0.00023	<0.00026	U	0.00083	0.00026	<0.00019	U	0.00061	0.00019	<0.00026	U	0.00081	0.00026
Cyclohexane	1700	6900	<0.00062	U	0.011	0.00062	<0.00091	U	0.017	0.00091	<0.00088	U	0.016	0.00088	<0.00056	U	0.01	0.00056	<0.00065	U	0.012	0.00065	<0.00066	U	0.012	0.00066	<0.0008	U	0.015	0.0008	<0.0009	U	0.016	0.0009	<0.00067	U	0.012	0.00067	<0.00088	U	0.016	0.00088
Dibromochloromethane	2.5	2.5	<0.00016	U	0.0011	0.00016	<0.00024	U	0.0017	0.00024	<0.00022	U	0.0016	0.00022	<0.00014	U	0.001	0.00014	<0.00017	U	0.0012	0.00017	<0.00017	U	0.0012	0.00017	<0.0002	U	0.0015	0.0002	<0.00023	U	0.0016	0.00023	<0.00017	U	0.0012	0.00017	<0.00023	U	0.0016	0.00023
Dichlorodifluoromethane	100	100	<0.001	U	0.011	0.001	<0.0015	U	0.017	0.0015	<0.0015	U	0.016	0.0015	<0.00094	U	0.01	0.00094	<0.0011	U	0.012	0.0011	<0.0011	U	0.012	0.0011	<0.0013	U	0.015	0.0013	<0.0015	U	0.016	0.0015	<0.0011	U	0.012	0.0011	<0.0015	U	0.016	0.0015
Ethylbenzene	46	46	<0.00016	U	0.0011	0.00016	0.001	J	0.0017	0.00024	<0.00023	U	0.0016	0.00023	<0.00014	U	0.001	0.00014	<0.00017	U	0.0012	0.00017	<0.00017	U	0.0012	0.00017	<0.00021	U	0.0015	0.00021	<0.00023	U	0.0016	0.00023	<0.00017	U	0.0012	0.00017	<0.00023	U	0.0016	0.00023
Isopropylbenzene	600	2500	<0.00012	U	0.0011	0.00012	<0.00018	U	0.0017	0.00018	<0.00018	U	0.0016	0.00018	<0.00011	U	0.001	0.00011	<0.00013	U	0.0012	0.00013	<0.00013	U	0.0012	0.00013	<0.00016	U	0.0015	0.00016	<0.00018	U	0.0016	0.00018	<0.00013	U	0.0012	0.00013	<0.00018	U	0.0016	0.00018
Methyl Acetate	780	2200	<0.0011	U	0.0046	0.0011	<0.0016	U	0.0067	0.0016	<0.0015	U	0.0064	0.0015	<0.00098	U	0.0041	0.00098	<0.0011	U	0.0048	0.0011	<0.0011	U	0.0048	0.0011	<0.0014	U	0.0059	0.0014	<0.0016	U	0.0066	0.0016	<0.0012	U	0.0049	0.0012	<0.0015	U	0.0065	0.0015
Methyl cyclohexane			<0.00069	U	0.0046	0.00069	<0.001	U	0.0067	0.001	<0.00097	U	0.0064	0.00097	<0.00062	U	0.0041	0.00062	<0.00072	U	0.0048	0.00072	<0.00073	U	0.0048	0.00073	<0.00088	U	0.0059	0.00088	<0.001	U	0.0066	0.001	<0.00074	U	0.0049	0.00074	<0.00098	U	0.0065	0.00098
Methyl tert butyl ether	0.28	0.28	<0.00023	U	0.0023	0.00023	<0.00034	U	0.0034	0.00034	<0.00032	U	0.0032	0.00032	<0.00021	U	0.002	0.00021	<0.00024	U	0.0024	0.00024	<0.00024	U	0.0024	0.00024	<0.0003	U	0.0029	0.0003	<0.00033	U	0.0033	0.00033	<0.00025	U	0.0024	0.00025	<0.00033	U	0.0032	0.00033
Methylene chloride	0.076	0.076	<0.0026	U	0.0057	0.0026	<0.0038	U	0.0084	0.0038	<0.0037	U	0.0081	0.0037	<0.0024	U	0.0051	0.0024	<0.0027	U	0.006	0.0027	<0.0028	U	0.006	0.0028	<0.0034	U	0.0073	0.0034	<0.0038	U	0.0083	0.0038	<0.0028	U	0.0061	0.0028	<0.0037	U	0.0081	0.0037
o-Xylene			<0.00033	U	0.0011	0.00033	<0.00049	U	0.0017	0.00049	<0.00047	U	0.0016	0.00047	<0.0003	U	0.001	0.0003	<0.00035	U	0.0012	0.00035	<0.00035	U	0.0012	0.00035	<0.00043	U	0.0015	0.00043	<0.00048	U	0.0016	0.00048	<0.00036	U	0.0012	0.00036	<0.00047	U	0.0016	0.00047
p/m-Xylene			<0.00064	U	0.0023	0.00064	<0.00094	U	0.0034	0.00094	<0.0009	U	0.0032	0.0009	<0.00057	U	0.002	0.00057	<0.00067	U	0.0024	0.00067	<0.00068	U	0.0024	0.00068	<0.00082	U	0.0029	0.00082	<0.00093	U	0.0033	0.00093	<0.00069	U	0.0024	0.00069	<0.00091	U	0.0032	0.00091
Styrene	24	24	<0.00022	U	0.0011	0.00022	<0.00033	U	0.0017	0.00033	<0.00032	U	0.0016	0.00032	<0.0002	U	0.001	0.0002	<0.00023	U	0.0012	0.00023	<0.00024	U	0.0012	0.00024	<0.00029	U	0.0015	0.00029	<0.00032	U	0.0016	0.00032	<0.00024	U	0.0012	0.00024	<0.00032	U	0.0016	0.00032
Tetrachloroethene	0.43	0.43	<0.00022	U	0.00057	0.00022	<0.00033	U	0.00084	0.00033	<0.00032	U	0.00081	0.00032	<0.0002	U	0.00051	0.0002	<0.00023	U	0.0006	0.00023	<0.00024	U	0.0006	0.00024	<0.00029	U	0.00073	0.00029	<0.00032	U	0.00083	0.00032	<0.00024	U	0.00061	0.00024	<0.00032	U	0.00081	0.00032
Toluene	44	44	<0.00062	U	0.0011	0.00062	0.0013	J	0.0017	0.00091	<0.00088	U	0.0016	0.00088	<0.00056	U	0.001	0.00056	<0.00065	U	0.0012	0.00065	<0.00065	U	0.0012	0.00065	<0.0008	U	0.0015	0.0008	<0.0009	U	0.0016	0.0009	<0.00067	U	0.0012	0.00067	<0.00088	U	0.0016	0.00088
trans-1,2-Dichloroethene	2.3	2.3	<0.00016	U	0.0017	0.00016	<0.00023	U	0.0025	0.00023	<0.00022	U	0.0024	0.00022	<0.00014	U	0.0015	0.00014	<0.00016	U	0.0018	0.00016	<0.00016	U	0.0018	0.00016	<0.0002	U	0.0022	0.0002	<0.00023	U	0.0025	0.00023	<0.00017	U	0.0018	0.00017	<0.00022	U	0.0024	0.00022
trans-1,3-Dichloropropene			<0.00031	U	0.0011	0.00031	<0.00046	U	0.0017	0.00046	<0.00044	U	0.0016	0.00044	<0.00028	U	0.001	0.00028	<0.00032	U	0.0012	0.00032	<0.00033	U	0.0012	0.00033	<0.0004	U	0.0015	0.0004	<0.00045	U	0.0016	0.00045	<0.00034	U	0.0012	0.00034	<0.00044	U	0.0016	0.00044
Trichloroethene	0.17	0.17	<0.00016	U	0.00057	0.00016	<0.00023	U	0.00084	0.00023	<0.00022	U	0.00081	0.00022	<0.00014	U	0.00051	0.00014	<0.00016	U	0.0006	0.00016	<0.00016	U	0.0006	0.00016	<0.0002	U	0.00073	0.0002	<0.00023	U	0.00083	0.00023	<0.00017	U	0.00061	0.00017	<0.00022	U	0.00081	0.00022
Trichlorofluoromethane	87	87	<0.00079	U	0.0046	0.00079	<0.0012	U	0.0067	0.0012	<0.0011	U	0.0064	0.0011	<0.00071	U	0.0041	0.00071	<0.00083	U	0.0048	0.00083	<0.00084	U	0.0048	0.00084	<0.001	U	0.0059	0.001	<0.0012	U	0.0066	0.0012	<0.00085	U	0.0049	0.00085	<0.0011	U	0.0065	0.0011
Vinyl chloride	0.027	0.027	<0.00038	U	0.0011	0.00038	<0.00056	U	0.0017	0.00056	<0.00054	U	0.0016	0.00054	<0.00034	U	0.001	0.00034	<0.0004	U	0.0012	0.0004	<0.0004	U	0.0012	0.0004	<0.00049	U	0.0015	0.00049	<0.00055	U	0.0016	0.00055	<0.00041	U	0.0012	0.00041	<0.00054	U	0.0016	0.00054
Xylenes, Total	990	990	<0.00033	U	0.0011	0.00033	<0.00049	U	0.0017	0.00049	<0.00047	U	0.0016	0.00047	<0.0003	U	0.001	0.0003	<0.00035	U	0.0012	0.00035	<0.00035	U	0.0012	0.00035	<0.00043	U	0.0015	0.00043	<0.00048	U	0.0016	0.00048	<0.00036	U	0.0012	0.00036	<0.00047	U	0.0016	0.00047
Total VOCs			-	-	-	-	0.0357	-	-	-	0.00043	-	-	-	0.00028	-	-	-	0.00028	-	-	-	0.00032	-	-	-	0.00035	-	-	-	0.00042	-	-	-	0.0003	-	-	-	0.02247	-	-	-

Table 3
Summary of Soil Pile Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:			B-8 (8-8.5)				B-9 (7.5-8)				COMP-1				COMP-10				COMP-11				COMP-12				COMP-2				COMP-3			
LAB ID:			L2158502-06				L2158502-07				L2158502-13				L2158502-22				L2158502-23				L2158502-24				L2158502-14				L2158502-15			
COLLECTION DATE:			10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021			
SAMPLE DEPTH:			8.0-8.5				7.5-8.0																											
SAMPLE MATRIX:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
ANALYTE	Pennsylvania Clean Fill Concentration Limits Criteria (mg/kg)	Pennsylvania Regulated Fill Concentration Limits Criteria (mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY EPA 5035																																		
1,1,1-Trichloroethane	7.2	7.2	<0.0002	U	0.00061	0.0002	<0.00027	U	0.00081	0.00027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.026	0.13	<0.0002	U	0.00061	0.0002	<0.00027	U	0.00081	0.00027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	10000	<0.00085	U	0.0049	0.00085	<0.0011	U	0.0065	0.0011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	0.15	0.15	<0.00033	U	0.0012	0.00033	<0.00043	U	0.0016	0.00043	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	0.75	3.9	<0.00018	U	0.0012	0.00018	<0.00023	U	0.0016	0.00023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	0.19	0.19	<0.00029	U	0.0012	0.00029	<0.00038	U	0.0016	0.00038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene			<0.00039	U	0.0024	0.00039	<0.00052	U	0.0032	0.00052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	27	27	<0.00033	U	0.0024	0.00033	<0.00044	U	0.0032	0.00044	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	0.0092	0.0092	<0.0012	U	0.0037	0.0012	<0.0016	U	0.0048	0.0016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	0.0012	0.0012	<0.00036	U	0.00061	0.00036	<0.00047	U	0.00081	0.00047	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	59	59	0.00035	J	0.0024	0.00018	0.00059	J	0.0032	0.00023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.1	0.1	<0.00031	U	0.0012	0.00031	<0.00042	U	0.0016	0.00042	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene, Total			<0.00017	U	0.0012	0.00017	<0.00022	U	0.0016	0.00022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	0.11	0.11	<0.00015	U	0.0012	0.00015	<0.0002	U	0.0016	0.0002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	61	61	<0.00018	U	0.0024	0.00018	<0.00024	U	0.0032	0.00024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene, Total	0.13		<0.00019	U	0.00061	0.00019	<0.00026	U	0.00081	0.00026	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	10	10	<0.00021	U	0.0024	0.00021	<0.00028	U	0.0032	0.00028	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.084	0.42	<0.043	U	0.098	0.043	<0.057	U	0.13	0.057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	76	76	<0.0027	U	0.012	0.0027	<0.0036	U	0.016	0.0036	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	1.6	6.4	<0.0014	U	0.012	0.0014	<0.0019	U	0.016	0.0019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	51	140	<0.0016	U	0.012	0.0016	<0.0021	U	0.016	0.0021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	430	1200	0.027	J	0.031	0.012	0.021	J	0.04	0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	0.13	0.13	<0.0002	U	0.00061	0.0002	<0.00027	U	0.00081	0.00027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	1.6	1.6	<0.00025	U	0.0024	0.00025	<0.00033	U	0.0032	0.00033	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	2.7	2.7	<0.00013	U	0.00061	0.00013	<0.00018	U	0.00081	0.00018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	3.5	3.5	<0.0003	U	0.0049	0.0003	<0.0004	U	0.0065	0.0004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	0.54	0.54	<0.00071	U	0.0024	0.00071	<0.00094	U	0.0032	0.00094	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	130	530	<0.0056	U	0.012	0.0056	<0.0074	U	0.016	0.0074	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	0.26	0.26	<0.00028	U	0.0012	0.00028	<0.00037	U	0.0016	0.00037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	6.1	6.1	<0.00016	U	0.00061	0.00016	<0.0002	U	0.00081	0.0002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	5.4	26	<0.00055	U	0.0024	0.00055	<0.00073	U	0.0032	0.00073	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	2	2	<0.00017	U	0.0018	0.00017	0.00041	J	0.0024	0.00023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	0.38	0.38	<0.0011	U	0.0049	0.0011	<0.0015	U	0.0065	0.0015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	1.6	1.6	<0.00021	U	0.0012	0.00021	<0.00028	U	0.0016	0.00028	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene			<0.00019	U	0.00061	0.00019	<0.00026	U	0.00081	0.00026	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	1700	6900	<0.00067	U	0.012	0.00067	<0.00088	U	0.016	0.00088	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	2.5	2.5	<0.00017	U	0.0012	0.00017	<0.00023	U	0.0016	0.00023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	100	100	<0.0011	U	0.012	0.0011	<0.0015	U	0.016	0.0015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	46	46	<0.00017	U	0.0012	0.00017	<0.00023	U	0.0016	0.00023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	600	2500	<0.00013	U	0.0012	0.00013	<0.00018	U	0.0016	0.00018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	780	2200	<0.0012	U	0.0049	0.0012	<0.0015	U	0.0065	0.0015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane			<0.00074	U	0.0049	0.00074	<0.00098	U	0.0065	0.00098	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether	0.28	0.28	<0.00025	U	0.0024	0.00025	<0.00032	U	0.0032	0.00032	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	0.076	0.076	<0.0028	U	0.0061	0.0028	<0.0037	U	0.0081	0.0037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene			<0.00036	U	0.0012	0.00036	<0.00047	U	0.0016	0.00047	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p/m-Xylene			<0.00068	U	0.0024	0.00068	<0.00091	U	0.0032	0.00091	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	24	24	<0.00024	U	0.0012	0.00024	<0.00032	U	0.0016	0.00032	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	0.43	0.43	<0.00024	U	0.00061	0.00024	<0.00032	U	0.00081	0.00032	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	44	44	<0.00066	U	0.0012	0.00066	<0.00088	U	0.0016	0.00088	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	2.3	2.3	<0.00017	U	0.0018	0.00017	<0.00022	U	0.0024	0.00022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene			<0.00033	U	0.0012	0.00033	<0.00044	U	0.0016	0.00044	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	0.17	0.17	<0.00017	U	0.00061	0.00017	<0.00022	U	0.00081	0.00022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	87	87	<0.00085	U	0.0049	0.00085	<0.0011	U	0.0065	0.0011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	0.027	0.027	<0.00041	U	0.0012	0.00041	<0.00054	U	0.0016	0.00054	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	990	990	<0.00036	U	0.0012	0.00036	<0.00047	U	0.0016	0.00047	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VOCs			0.02735	-	-	-	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3
Summary of Soil Pile Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:			COMP-4				COMP-5				COMP-6				COMP-7				COMP-8				COMP-9			
LAB ID:			L2158502-16				L2158502-17				L2158502-18				L2158502-19				L2158502-20				L2158502-21			
COLLECTION DATE:			10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021			
SAMPLE DEPTH:																										
SAMPLE MATRIX:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
ANALYTE	Pennsylvania Clean Fill Concentration Limits Criteria (mg/kg)	Pennsylvania Regulated Fill Concentration Limits Criteria (mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY EPA 5035																										
1,1,1-Trichloroethane	7.2	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.026	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	0.15	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	0.75	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	0.19	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	27	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	0.0092	0.0092	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	0.0012	0.0012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	59	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene, Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	0.11	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	61	61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene, Total	0.13		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.084	0.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	76	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	1.6	6.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	51	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	430	1200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	0.13	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	1.6	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	2.7	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	3.5	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	0.54	0.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	130	530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	0.26	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	6.1	6.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	5.4	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	0.38	0.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	1.6	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	1700	6900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	2.5	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	46	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	600	2500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	780	2200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether	0.28	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	0.076	0.076	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p/m-Xylene			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	24	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	0.43	0.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	44	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	2.3	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	0.17	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	87	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	0.027	0.027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	990	990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VOCs			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3
Summary of Soil Pile Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Clean Fill Concentration Limits Criteria	Pennsylvania Regulated Fill Concentration Limits Criteria	B-1 (14-14.5)				B-12 (4.5-5)				B-12 (5.5-6)				B-13 (4.5-5)				B-14 (9.5-10)				B-15 (12-12.5)				B-2 (9.5-10)				B-3 (4.5-5)				B-7 (10-10.5)				B-7 (6.5-7)			
LAB ID:			L2158502-01				L2158502-08				L2158502-09				L2158502-10				L2158502-11				L2158502-12				L2158502-02				L2158502-03				L2158502-05				L2158502-04			
COLLECTION DATE:			10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021			
SAMPLE DEPTH:			14.0-14.5				4.5-5.0				5.5-6.0				4.5-5.0				9.5-10.0				12.0-12.5				9.5-10.0				4.5-5.0				10.0-10.5				6.5-7.0			
SAMPLE MATRIX:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
ANALYTE	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
SEMIVOLATILE ORGANICS BY GC/MS																																										
1,2,4,5-Tetrachlorobenzene	6	16	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
1,4-Dioxane	0.084	0.42	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2,3,4,6-Tetrachlorophenol	2000	5500	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2,4,5-Trichlorophenol	2600	7300	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2,4,6-Trichlorophenol	12	34	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2,4-Dichlorophenol	1	1	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2,4-Dimethylphenol	36	100	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2,4-Dinitrophenol	0.94	2.6	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2,4-Dinitrotoluene	0.057	0.26	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2,6-Dinitrotoluene	0.015	0.068	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2-Chloronaphthalene	7000	20000	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2-Chlorophenol	4.4	4.4	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2-Methylnaphthalene	680	1900	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2-Methylphenol	35	96	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2-Nitroaniline	8	21	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
2-Nitrophenol	6.7	19	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
3,3'-Dichlorobenzidine	8.8	42	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
3-Methylphenol/4-Methylphenol	4.9	14	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
3-Nitroaniline			-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
4,6-Dinitro-o-cresol			-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
4-Bromophenyl phenyl ether			-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
4-Chloroaniline	0.47	2.1	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
4-Chlorophenyl phenyl ether			-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
4-Nitroaniline	0.55	2.5	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
4-Nitrophenol	4.1	4.1	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Acenaphthene	3100	4700	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Acenaphthylene	2800	8000	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Acetophenone	230	640	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Anthracene	350	350	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Atrazine	0.13	0.13	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Benzaldehyde			-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Benzo(a)anthracene	6	130	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Benzo(a)pyrene	0.58	12	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Benzo(b)fluoranthene	3.5	76	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Benzo(ghi)perylene	180	180	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Benzo(k)fluoranthene	4	76	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Biphenyl	40	190	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Bis(2-chloroethoxy)methane	3.4	9.2	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Bis(2-chloroisopropyl)ether	8	8	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Bis(2-ethylhexyl)phthalate	130	130	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Butyl benzyl phthalate	3200	10000	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Caprolactam			-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Carbazole	24	110	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Chrysene	35	230	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Di-n-butylphthalate	1700	4900	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Di-n-octylphthalate	2200	10000	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Dibenzo(a,h)anthracene	1	22	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Dibenzofuran	110	310	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Diethyl phthalate	1000	2900	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Dimethyl phthalate			-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Fluoranthene	3200	3200	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Fluorene	3400	3800	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Hexachlorobenzene	0.96	0.96	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Hexachlorobutadiene	11	52	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Hexachlorocyclopentadiene	91	91	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Hexachloroethane	0.56	0.56	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Indeno(1,2,3-cd)pyrene	3.5	76	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Isophorone	1.9	1.9	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Naphthalene	25	25	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
NDPA/DPA	23	110	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Nitrobenzene	3.6	10	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
p-Chloro-m-cresol	870	2500	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Pentachlorophenol	5	5	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Phenanthrene	10000	10000	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Phenol	33	33	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Pyrene	2200	2200	-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Total SVOCs			-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	

Table 3
Summary of Soil Pile Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:			B-8 (8-8.5)				B-9 (7.5-8)				COMP-1				COMP-10				COMP-11				COMP-12				COMP-2				COMP-3			
LAB ID:			L2158502-06				L2158502-07				L2158502-13				L2158502-22				L2158502-23				L2158502-24				L2158502-14				L2158502-15			
COLLECTION DATE:			10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021			
SAMPLE DEPTH:			8.0-8.5				7.5-8.0																											
SAMPLE MATRIX:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
ANALYTE	Pennsylvania Clean Fill Concentration Limits Criteria (mg/kg)	Pennsylvania Regulated Fill Concentration Limits Criteria (mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
SEMIVOLATILE ORGANICS BY GC/MS																																		
1,2,4,5-Tetrachlorobenzene	6	16	-		-	-	-		-	-	<0.023	U	0.22	0.023	<0.02	U	0.2	0.02	<0.02	U	0.19	0.02	<0.019	U	0.19	0.019	<0.02	U	0.19	0.02	<0.02	U	0.19	0.02
1,4-Dioxane	0.084	0.42	-		-	-	-		-	-	<0.0099	U	0.033	0.0099	<0.0089	U	0.029	0.0089	<0.0087	U	0.028	0.0087	<0.0085	U	0.028	0.0085	<0.0088	U	0.029	0.0088	<0.0086	U	0.028	0.0086
2,3,4,6-Tetrachlorophenol	2000	5500	-		-	-	-		-	-	<0.044	U	0.22	0.044	<0.039	U	0.2	0.039	<0.038	U	0.19	0.038	<0.038	U	0.19	0.038	<0.039	U	0.19	0.039	<0.038	U	0.19	0.038
2,4,5-Trichlorophenol	2600	7300	-		-	-	-		-	-	<0.042	U	0.22	0.042	<0.037	U	0.2	0.037	<0.036	U	0.19	0.036	<0.036	U	0.19	0.036	<0.037	U	0.19	0.037	<0.036	U	0.19	0.036
2,4,6-Trichlorophenol	12	34	-		-	-	-		-	-	<0.041	U	0.13	0.041	<0.037	U	0.12	0.037	<0.036	U	0.11	0.036	<0.035	U	0.11	0.035	<0.036	U	0.12	0.036	<0.036	U	0.11	0.036
2,4-Dichlorophenol	1	1	-		-	-	-		-	-	<0.035	U	0.2	0.035	<0.031	U	0.18	0.031	<0.031	U	0.17	0.031	<0.03	U	0.17	0.03	<0.031	U	0.17	0.031	<0.03	U	0.17	0.03
2,4-Dimethylphenol	36	100	-		-	-	-		-	-	<0.072	U	0.22	0.072	<0.064	U	0.2	0.064	<0.063	U	0.19	0.063	<0.062	U	0.19	0.062	<0.064	U	0.19	0.064	<0.062	U	0.19	0.062
2,4-Dinitrophenol	0.94	2.6	-		-	-	-		-	-	<0.1	U	1	0.1	<0.091	U	0.94	0.091	<0.089	U	0.91	0.089	<0.087	U	0.9	0.087	<0.09	U	0.92	0.09	<0.088	U	0.91	0.088
2,4-Dinitrotoluene	0.057	0.26	-		-	-	-		-	-	<0.044	U	0.22	0.044	<0.039	U	0.2	0.039	<0.038	U	0.19	0.038	<0.037	U	0.19	0.037	<0.038	U	0.19	0.038	<0.038	U	0.19	0.038
2,6-Dinitrotoluene	0.015	0.068	-		-	-	-		-	-	*<0.037*	*U*	*0.22*	*0.037*	*<0.034*	*U*	*0.2*	*0.034*	*<0.033*	*U*	*0.19*	*0.033*	*<0.032*	*U*	*0.19*	*0.032*	*<0.033*	*U*	*0.19*	*0.033*	*<0.032*	*U*	*0.19*	*0.032*
2-Chloronaphthalene	7000	20000	-		-	-	-		-	-	<0.022	U	0.22	0.022	<0.019	U	0.2	0.019	<0.019	U	0.19	0.019	<0.018	U	0.19	0.018	<0.019	U	0.19	0.019	<0.019	U	0.19	0.019
2-Chlorophenol	4.4	4.4	-		-	-	-		-	-	<0.026	U	0.22	0.026	<0.023	U	0.2	0.023	<0.022	U	0.19	0.022	<0.022	U	0.19	0.022	<0.023	U	0.19	0.023	<0.022	U	0.19	0.022
2-Methylnaphthalene	680	1900	-		-	-	-		-	-	<0.026	U	0.26	0.026	<0.024	U	0.23	0.024	<0.023	U	0.23	0.023	0.085	J	0.22	0.022	<0.023	U	0.23	0.023	<0.023	U	0.23	0.023
2-Methylphenol	35	96	-		-	-	-		-	-	<0.034	U	0.22	0.034	<0.03	U	0.2	0.03	<0.03	U	0.19	0.03	<0.029	U	0.19	0.029	<0.03	U	0.19	0.03	<0.029	U	0.19	0.029
2-Nitroaniline	8	21	-		-	-	-		-	-	<0.042	U	0.22	0.042	<0.038	U	0.2	0.038	<0.037	U	0.19	0.037	<0.036	U	0.19	0.036	<0.037	U	0.19	0.037	<0.036	U	0.19	0.036
2-Nitrophenol	6.7	19	-		-	-	-		-	-	<0.082	U	0.47	0.082	<0.073	U	0.42	0.073	<0.072	U	0.41	0.072	<0.07	U	0.4	0.07	<0.072	U	0.42	0.072	<0.071	U	0.41	0.071
3,3'-Dichlorobenzidine	8.8	42	-		-	-	-		-	-	<0.058	U	0.22	0.058	<0.052	U	0.2	0.052	<0.051	U	0.19	0.051	<0.05	U	0.19	0.05	<0.051	U	0.19	0.051	<0.05	U	0.19	0.05
3-Methylphenol/4-Methylphenol	4.9	14	-		-	-	-		-	-	<0.034	U	0.31	0.034	<0.031	U	0.28	0.031	<0.03	U	0.27	0.03	<0.029	U	0.27	0.029	<0.03	U	0.28	0.03	<0.03	U	0.27	0.03
3-Nitroaniline			-		-	-	-		-	-	<0.041	U	0.22	0.041	<0.037	U	0.2	0.037	<0.036	U	0.19	0.036	<0.035	U	0.19	0.035	<0.036	U	0.19	0.036	<0.036	U	0.19	0.036
4,6-Dinitro-o-cresol			-		-	-	-		-	-	<0.1	U	0.57	0.1	<0.094	U	0.51	0.094	<0.091	U	0.5	0.091	<0.09	U	0.48	0.09	<0.092	U	0.5	0.092	<0.091	U	0.49	0.091
4-Bromophenyl phenyl ether			-		-	-	-		-	-	<0.033	U	0.22	0.033	<0.03	U	0.2	0.03	<0.029	U	0.19	0.029	<0.028	U	0.19	0.028	<0.029	U	0.19	0.029	<0.029	U	0.19	0.029
4-Chloroaniline	0.47	2.1	-		-	-	-		-	-	<0.04	U	0.22	0.04	<0.036	U	0.2	0.036	<0.035	U	0.19	0.035	<0.034	U	0.19	0.034	<0.035	U	0.19	0.035	<0.034	U	0.19	0.034
4-Chlorophenyl phenyl ether			-		-	-	-		-	-	<0.023	U	0.22	0.023	<0.021	U	0.2	0.021	<0.02	U	0.19	0.02	<0.02	U	0.19	0.02	<0.021	U	0.19	0.021	<0.02	U	0.19	0.02
4-Nitroaniline	0.55	2.5	-		-	-	-		-	-	<0.09	U	0.22	0.09	<0.081	U	0.2	0.081	<0.079	U	0.19	0.079	<0.077	U	0.19	0.077	<0.08	U	0.19	0.08	<0.078	U	0.19	0.078
4-Nitrophenol	4.1	4.1	-		-	-	-		-	-	<0.089	U	0.3	0.089	<0.08	U	0.27	0.08	<0.078	U	0.27	0.078	<0.076	U	0.26	0.076	<0.078	U	0.27	0.078	<0.077	U	0.26	0.077
Acenaphthene	3100	4700	-		-	-	-		-	-	<0.022	U	0.17	0.022	0.023	J	0.16	0.02	<0.02	U	0.15	0.02	0.16		0.15	0.019	0.022	J	0.15	0.02	0.023	J	0.15	0.02
Acenaphthylene	2800	8000	-		-	-	-		-	-	<0.034	U	0.17	0.034	<0.03	U	0.16	0.03	0.033	J	0.15	0.029	0.029	J	0.15	0.029	<0.03	U	0.15	0.03	<0.029	U	0.15	0.029
Acetophenone	230	640	-		-	-	-		-	-	<0.027	U	0.22	0.027	<0.024	U	0.2	0.024	<0.024	U	0.19	0.024	<0.023	U	0.19	0.023	<0.024	U	0.19	0.024	<0.023	U	0.19	0.023
Anthracene	350	350	-		-	-	-		-	-	<0.042	U	0.13	0.042	0.065	J	0.12	0.038	0.068	J	0.11	0.037	0.31		0.11	0.036	0.049	J	0.12	0.038	0.062	J	0.11	0.037
Atrazine	0.13	0.13	-		-	-	-		-	-	<0.076	U	0.17	0.076	<0.068	U	0.16	0.068	<0.067	U	0.15	0.067	<0.065	U	0.15	0.065	<0.067	U	0.15	0.067	<0.066	U	0.15	0.066
Benzaldehyde			-		-	-	-		-	-	<0.059	U	0.29	0.059	<0.053	U	0.26	0.053	<0.051	U	0.25	0.051	<0.05	U	0.25	0.05	<0.052	U	0.25	0.052	<0.051	U	0.25	0.051
Benzo(a)anthracene	6	130	-		-	-	-		-	-	0.23		0.13	0.024	0.24		0.12	0.022	0.3		0.11	0.021	0.97		0.11	0.021	0.22		0.12	0.022	0.17		0.11	0.021
Benzo(a)pyrene	0.58	12	-		-	-	-		-	-	0.23		0.17	0.053	0.2		0.16	0.048	0.25		0.15	0.046	**0.86**		**0.15**	**0.045**	0.19		0.15	0.047	0.16		0.15	0.046
Benzo(b)fluoranthene	3.5	76	-		-	-	-		-	-	0.28		0.13	0.037	0.26		0.12	0.033	0.32		0.11	0.032	1.1		0.11	0.031	0.25		0.12	0.032	0.2		0.11	0.032
Benzo(ghi)perylene	180	180	-		-	-	-		-	-	0.14	J	0.17	0.026	0.12	J	0.16	0.023	0.15		0.15	0.022	0.52		0.15	0.022	0.12	J	0.15	0.023	0.092	J	0.15	0.022
Benzo(k)fluoranthene	4	76	-		-	-	-		-	-	0.099	J	0.13	0.035	0.11	J	0.12	0.031	0.13		0.11	0.03	0.44		0.11	0.03	0.098	J	0.12	0.031	0.07	J	0.11	0.03
Biphenyl	40	190	-		-	-	-		-	-	<0.051	U	0.5	0.051	<0.045	U	0.44	0.045	<0.044	U	0.43	0.044	<0.043	U	0.42	0.043	<0.045	U	0.44	0.045	<0.044	U	0.43	0.044
Bis(2-chloroethoxy)methane	3.4	9.2	-		-	-	-		-	-	<0.022	U	0.24	0.022	<0.02	U	0.21	0.02	<0.019	U	0.2	0.019	<0.019	U	0.2	0.019	<0.019	U	0.21	0.019	<0.019	U	0.2	0.019
Bis(2-chloroisopropyl)ether	8	8	-		-	-	-		-	-	<0.037	U	0.26	0.037	<0.033	U	0.23	0.033	<0.032	U	0.23	0.032	<0.032	U	0.22	0.032	<0.033	U	0.23	0.033	<0.032	U	0.23	0.032
Bis(2-ethylhexyl)phthalate	130	130	-		-	-	-		-	-	<0.075	U	0.22	0.075	<0.068	U	0.2	0.068	<0.066	U	0.19	0.066	<0.064	U	0.19	0.064	<0.067	U	0.19	0.067	<0.065	U	0.19	0.065
Butyl benzyl phthalate	3200	10000	-		-	-	-		-	-	<0.055	U	0.22	0.055	<0.049	U	0.2	0.049	<0.048	U	0.19	0.048	<0.047	U	0.19	0.047	<0.048	U	0.19	0.048	<0.048	U	0.19	0.048
Caprolactam			-		-	-	-		-	-	0.16	J	0.22	0.066	<0.059	U	0.2	0.059	<0.058	U	0.19	0.058	<0.057	U	0.19	0.057	<0.058	U	0.19	0.058	<0.058	U	0.19	0.058
Carbazole	24	110	-		-	-	-		-	-	<0.021	U	0.22	0.021	0.039	J	0.2	0.019	0.032	J	0.19	0.018	0.16	J	0.19	0.018	0.03	J	0.19	0.019	0.033	J	0.19	0.018
Chrysene	35	230	-		-	-	-		-	-	0.22		0.13	0.023	0.22		0.12	0.02	0.28		0.11	0.02	0.9		0.11	0.019	0.21		0.12	0.02	0.16		0.11	0.02
Di-n-butylphthalate	1700	4900	-		-	-	-		-	-	<0.041	U	0.22	0.041	<0.037	U	0.2	0.037	<0.036	U	0.19	0.036	<0.035	U	0.19	0.035	<0.036	U	0.19	0.036	<0.036	U	0.19	0.036
Di-n-octylphthalate	2200	10000	-		-	-	-		-	-	<0.074	U	0.22	0.074	<0.066	U	0.2	0.066	<0.065	U	0.19	0.065	<0.063	U	0.19	0.063	<0.065	U	0.19	0.065	<0.064	U	0.19	0.064
Dibenzo(a,h)anthracene	1	22	-		-	-	-		-	-	0.036	J	0.13	0.025	0.034	J	0.12	0.022	0.043	J	0.11	0.022	0.14		0.11	0.022	0.032	J	0.12	0.022	0.025	J	0.11	0.022
Dibenzofuran	110	310	-		-	-	-		-	-	<0.021	U	0.22	0.021	0.018	J	0.2	0.018	<0.018	U	0.19	0.018	0.17	J	0.19	0.018	<0.018	U	0.19	0.018	0.019	J	0.19	0.018
Diethyl phthalate	1000	2900	-		-	-	-		-	-	<0.02	U	0.22	0.02	<0.018	U	0.2	0.018	<0.018	U	0.19	0.018	<0.017	U	0.19	0.017	<0.018	U	0.19	0.018	<0.018	U	0.19	0.018
Dimethyl phthalate			-		-	-	-		-	-	<0.046	U	0.22	0.046	<0.041	U	0.2	0.041	<0.04	U	0.19	0.04	<0.039	U	0.19	0.039	<0.04	U	0.19	0.04	<0.04	U	0.19	0.04
Fluoranthene	3200	3200	-		-	-	-		-	-	0.34		0.13	0.025	0.44		0.12	0.022	0.54		0.11	0.022	1.9		0.11	0.021	0.38		0.12	0.022	0.35		0.11	0.022
Fluorene	3400	3800	-		-	-	-		-	-	<0.021	U	0.22	0.021	0.025	J	0.2	0.019	0.02	J	0.19	0.018	0.15	J	0.19	0.018	0.021	J	0.19	0.019	0.027	J	0.19	0.018
Hexachlorobenzene	0.96	0.96	-		-	-	-		-	-	<0.024	U	0.13	0.024	<0.022	U	0.12	0.022	<0.021	U	0.11	0.021	<0.021	U	0.11	0.021	<0.022	U	0.12	0.022	<0.021	U	0.11	0.021
Hexachlorobutadiene	11	52	-		-	-	-		-	-	<0.032	U	0.22	0.032	<0.029	U	0.2	0.029	<0.028	U	0.19	0.028	<0.027	U	0.19	0.027	<0.028	U	0.19	0.028	<0.028	U	0.19	0.028
Hexachlorocyclopentadiene	91	91	-		-	-	-		-	-	<0.2	U	0.62	0.2	<0.18	U	0.56	0.18	<0.17	U	0.54	0.17	<0.17	U	0.53	0.17	<0.17	U	0.55	0.17	<0.17	U	0.54	0.17
Hexachloroethane	0.56	0.56	-		-	-	-		-	-	<0.035	U	0.17	0.035	<0.032	U	0.16	0.032	<0.031	U	0.15	0.031	<0.03	U	0.15	0.03	<0.031	U	0.15	0.031	<0.031	U	0.15	0.031
Indeno(1,2,3-cd)pyrene	3.5	76	-		-	-	-		-	-	0.15	J	0.17	0.03	0.14	J	0.16	0.027	0.17		0.15	0.026	0.61		0.15	0.026	0.12	J	0.15	0.027	0.1	J	0.15	0.026
Isophorone	1.9	1.9	-		-	-	-		-	-	<0.028	U	0.2	0.028	<0.025	U	0.18	0.025	<0.025	U	0.17	0.025	<0.024	U	0.17	0.024	<0.025	U	0.17	0.025	<0.024	U	0.17	0.024
Naphthalene	25	25	-		-	-	-		-	-	<0.026	U	0.22	0.026	0.037	J	0.2	0.024	0.027	J	0.19	0.023	0.24		0.19	0.023	0.048	J	0.19	0.023	<0.023	U	0.19	0.023
NDPA/DPA	23	110	-		-	-	-		-	-	<0.025	U	0.17	0.025	<0.022	U	0.16	0.022	<0.022	U	0.15	0.022	<0.021	U	0.15	0.021	<0.022	U	0.15	0.022	<0.022	U	0.15	0.022
Nitrobenzene	3.6	10	-		-	-	-		-	-	<0.032	U	0.2	0.032	<0.029	U	0.18	0.029	<0.028	U	0.17	0.028	<0.028	U	0.17	0.028	<0.028	U	0.17	0.028	<0.028	U	0.17	0.028
p-Chloro-m-cresol	870	2500	-		-	-	-		-	-	<0.032	U	0.22	0.032	<0.029	U	0.2	0.029	<0.028	U	0.19	0.028	<0.028	U	0.19	0.028	<0.029	U	0.19	0.029	<0.028	U	0.19	0.028
Pentachlorophenol	5	5	-		-	-	-		-	-	<0.048	U	0.17	0.048	<0.043	U	0.16	0.043	<0.042	U	0.15	0.042	<0.041	U	0.15	0.041	<0.042	U	0.15	0.042	<0.042	U	0.15	0.042
Phenanthrene	10000	10000	-		-	-	-		-	-	0.14		0.13	0.026	0.25		0.12	0.024	0.26		0.11	0.023	1.4		0.11	0.023	0.23		0.12	0.023	0.24		0.11	0.023
Phenol	33	33	-		-	-	-		-	-	<0.033	U	0.22	0.033	<0.03	U	0.2	0.03	<0.029	U	0.19	0.029	<0.028	U	0.19	0.028	<0.029	U	0.19	0.029	<0.028	U	0.19	0.028
Pyrene	2200	2200	-		-	-	-		-	-	0.32		0.13	0.022	0.38		0.12	0.019	0.46		0.11	0.019	1.5		0.11	0.018	0.34		0.12	0.019	0.29		0.11	0.019
Total SVOCs			-	-	-	-	-	-	-	-	2.345	-	-	-	2.601	-	-	-	3.083	-	-	-	11.644	-	-	-	2.36	-	-	-	2.021	-	-	-

Table 3
Summary of Soil Pile Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:			COMP-4				COMP-5				COMP-6				COMP-7				COMP-8				COMP-9			
LAB ID:			L2158502-16				L2158502-17				L2158502-18				L2158502-19				L2158502-20				L2158502-21			
COLLECTION DATE:			10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021			
SAMPLE DEPTH:																										
SAMPLE MATRIX:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
ANALYTE	Pennsylvania Clean Fill Concentration Limits Criteria (mg/kg)	Pennsylvania Regulated Fill Concentration Limits Criteria (mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
SEMIVOLATILE ORGANICS BY GC/MS																										
1,2,4,5-Tetrachlorobenzene	6	16	<0.019	U	0.19	0.019	<0.019	U	0.19	0.019	<0.019	U	0.18	0.019	<0.019	U	0.18	0.019	<0.019	U	0.19	0.019	<0.019	U	0.18	0.019
1,4-Dioxane	0.084	0.42	<0.0085	U	0.028	0.0085	<0.0085	U	0.028	0.0085	<0.0084	U	0.028	0.0084	<0.0083	U	0.027	0.0083	<0.0085	U	0.028	0.0085	<0.0084	U	0.028	0.0084
2,3,4,6-Tetrachlorophenol	2000	5500	<0.038	U	0.19	0.038	<0.038	U	0.19	0.038	<0.037	U	0.18	0.037	<0.037	U	0.18	0.037	<0.038	U	0.19	0.038	<0.037	U	0.18	0.037
2,4,5-Trichlorophenol	2600	7300	<0.036	U	0.19	0.036	<0.036	U	0.19	0.036	<0.035	U	0.18	0.035	<0.035	U	0.18	0.035	<0.036	U	0.19	0.036	<0.035	U	0.18	0.035
2,4,6-Trichlorophenol	12	34	<0.035	U	0.11	0.035	<0.035	U	0.11	0.035	<0.035	U	0.11	0.035	<0.034	U	0.11	0.034	<0.035	U	0.11	0.035	<0.035	U	0.11	0.035
2,4-Dichlorophenol	1	1	<0.03	U	0.17	0.03	<0.03	U	0.17	0.03	<0.03	U	0.17	0.03	<0.029	U	0.16	0.029	<0.03	U	0.17	0.03	<0.03	U	0.16	0.03
2,4-Dimethylphenol	36	100	<0.061	U	0.19	0.061	<0.062	U	0.19	0.062	<0.061	U	0.18	0.061	<0.06	U	0.18	0.06	<0.062	U	0.19	0.062	<0.061	U	0.18	0.061
2,4-Dinitrophenol	0.94	2.6	<0.087	U	0.89	0.087	<0.087	U	0.9	0.087	<0.086	U	0.89	0.086	<0.085	U	0.87	0.085	<0.087	U	0.9	0.087	<0.086	U	0.88	0.086
2,4-Dinitrotoluene	0.057	0.26	<0.037	U	0.19	0.037	<0.037	U	0.19	0.037	<0.037	U	0.18	0.037	<0.036	U	0.18	0.036	<0.037	U	0.19	0.037	<0.037	U	0.18	0.037
2,6-Dinitrotoluene	0.015	0.068	*<0.032*	*U*	*0.19*	*0.032*	*<0.032*	*U*	*0.19*	*0.032*	*<0.032*	*U*	*0.18*	*0.032*	*<0.031*	*U*	*0.18*	*0.031*	*<0.032*	*U*	*0.19*	*0.032*	*<0.032*	*U*	*0.18*	*0.032*
2-Chloronaphthalene	7000	20000	<0.018	U	0.19	0.018	<0.018	U	0.19	0.018	<0.018	U	0.18	0.018	<0.018	U	0.18	0.018	<0.018	U	0.19	0.018	<0.018	U	0.18	0.018
2-Chlorophenol	4.4	4.4	<0.022	U	0.19	0.022	<0.022	U	0.19	0.022	<0.022	U	0.18	0.022	<0.021	U	0.18	0.021	<0.022	U	0.19	0.022	<0.022	U	0.18	0.022
2-Methylnaphthalene	680	1900	<0.022	U	0.22	0.022	<0.022	U	0.22	0.022	<0.022	U	0.22	0.022	<0.022	U	0.22	0.022	<0.022	U	0.22	0.022	<0.022	U	0.22	0.022
2-Methylphenol	35	96	<0.029	U	0.19	0.029	<0.029	U	0.19	0.029	<0.029	U	0.18	0.029	<0.028	U	0.18	0.028	<0.029	U	0.19	0.029	<0.028	U	0.18	0.028
2-Nitroaniline	8	21	<0.036	U	0.19	0.036	<0.036	U	0.19	0.036	<0.036	U	0.18	0.036	<0.035	U	0.18	0.035	<0.036	U	0.19	0.036	<0.036	U	0.18	0.036
2-Nitrophenol	6.7	19	<0.07	U	0.4	0.07	<0.07	U	0.4	0.07	<0.07	U	0.4	0.07	<0.068	U	0.39	0.068	<0.07	U	0.4	0.07	<0.069	U	0.4	0.069
3,3'-Dichlorobenzidine	8.8	42	<0.05	U	0.19	0.05	<0.05	U	0.19	0.05	<0.049	U	0.18	0.049	<0.048	U	0.18	0.048	<0.05	U	0.19	0.05	<0.049	U	0.18	0.049
3-Methylphenol/4-Methylphenol	4.9	14	<0.029	U	0.27	0.029	<0.029	U	0.27	0.029	<0.029	U	0.27	0.029	<0.028	U	0.26	0.028	<0.029	U	0.27	0.029	<0.029	U	0.26	0.029
3-Nitroaniline			<0.035	U	0.19	0.035	<0.035	U	0.19	0.035	<0.035	U	0.18	0.035	<0.034	U	0.18	0.034	<0.035	U	0.19	0.035	<0.035	U	0.18	0.035
4,6-Dinitro-o-cresol			<0.089	U	0.48	0.089	<0.09	U	0.48	0.09	<0.089	U	0.48	0.089	<0.087	U	0.47	0.087	<0.09	U	0.48	0.09	<0.088	U	0.48	0.088
4-Bromophenyl phenyl ether			<0.028	U	0.19	0.028	<0.028	U	0.19	0.028	<0.028	U	0.18	0.028	<0.028	U	0.18	0.028	<0.028	U	0.19	0.028	<0.028	U	0.18	0.028
4-Chloroaniline	0.47	2.1	<0.034	U	0.19	0.034	<0.034	U	0.19	0.034	<0.034	U	0.18	0.034	<0.033	U	0.18	0.033	<0.034	U	0.19	0.034	<0.034	U	0.18	0.034
4-Chlorophenyl phenyl ether			<0.02	U	0.19	0.02	<0.02	U	0.19	0.02	<0.02	U	0.18	0.02	<0.019	U	0.18	0.019	<0.02	U	0.19	0.02	<0.02	U	0.18	0.02
4-Nitroaniline	0.55	2.5	<0.077	U	0.19	0.077	<0.077	U	0.19	0.077	<0.076	U	0.18	0.076	<0.075	U	0.18	0.075	<0.077	U	0.19	0.077	<0.076	U	0.18	0.076
4-Nitrophenol	4.1	4.1	<0.076	U	0.26	0.076	<0.076	U	0.26	0.076	<0.075	U	0.25	0.075	<0.074	U	0.25	0.074	<0.076	U	0.26	0.076	<0.075	U	0.26	0.075
Acenaphthene	3100	4700	0.049	J	0.15	0.019	0.16		0.15	0.019	0.034	J	0.15	0.019	0.035	J	0.14	0.019	0.18		0.15	0.019	0.045	J	0.15	0.019
Acenaphthylene	2800	8000	<0.029	U	0.15	0.029	<0.029	U	0.15	0.029	<0.028	U	0.15	0.028	<0.028	U	0.14	0.028	<0.029	U	0.15	0.029	<0.028	U	0.15	0.028
Acetophenone	230	640	<0.023	U	0.19	0.023	<0.023	U	0.19	0.023	<0.023	U	0.18	0.023	<0.022	U	0.18	0.022	<0.023	U	0.19	0.023	<0.023	U	0.18	0.023
Anthracene	350	350	0.14		0.11	0.036	0.15		0.11	0.036	0.12		0.11	0.036	0.11		0.11	0.035	0.13		0.11	0.036	0.12		0.11	0.036
Atrazine	0.13	0.13	<0.065	U	0.15	0.065	<0.065	U	0.15	0.065	<0.065	U	0.15	0.065	<0.064	U	0.14	0.064	<0.065	U	0.15	0.065	<0.064	U	0.15	0.064
Benzaldehyde			<0.05	U	0.24	0.05	<0.05	U	0.25	0.05	<0.05	U	0.24	0.05	<0.049	U	0.24	0.049	<0.05	U	0.25	0.05	<0.05	U	0.24	0.05
Benzo(a)anthracene	6	130	0.42		0.11	0.021	0.29		0.11	0.021	0.33		0.11	0.021	0.4		0.11	0.02	0.25		0.11	0.021	0.28		0.11	0.021
Benzo(a)pyrene	0.58	12	0.42		0.15	0.045	0.26		0.15	0.046	0.29		0.15	0.045	0.35		0.14	0.044	0.21		0.15	0.046	0.27		0.15	0.045
Benzo(b)fluoranthene	3.5	76	0.52		0.11	0.031	0.37		0.11	0.031	0.37		0.11	0.031	0.43		0.11	0.031	0.3		0.11	0.031	0.35		0.11	0.031
Benzo(ghi)perylene	180	180	0.25		0.15	0.022	0.15		0.15	0.022	0.17		0.15	0.022	0.31		0.14	0.021	0.14	J	0.15	0.022	0.17		0.15	0.022
Benzo(k)fluoranthene	4	76	0.18		0.11	0.03	0.11		0.11	0.03	0.15		0.11	0.03	0.13		0.11	0.029	0.12		0.11	0.03	0.13		0.11	0.029
Biphenyl	40	190	<0.043	U	0.42	0.043	0.062	J	0.42	0.043	<0.043	U	0.42	0.043	<0.042	U	0.41	0.042	0.17	J	0.42	0.043	<0.043	U	0.42	0.043
Bis(2-chloroethoxy)methane	3.4	9.2	<0.019	U	0.2	0.019	<0.019	U	0.2	0.019	<0.018	U	0.2	0.018	<0.018	U	0.2	0.018	<0.019	U	0.2	0.019	<0.018	U	0.2	0.018
Bis(2-chloroisopropyl)ether	8	8	<0.032	U	0.22	0.032	<0.032	U	0.22	0.032	<0.032	U	0.22	0.032	<0.031	U	0.22	0.031	<0.032	U	0.22	0.032	<0.031	U	0.22	0.031
Bis(2-ethylhexyl)phthalate	130	130	<0.064	U	0.19	0.064	<0.065	U	0.19	0.065	<0.064	U	0.18	0.064	<0.063	U	0.18	0.063	0.095	J	0.19	0.065	<0.064	U	0.18	0.064
Butyl benzyl phthalate	3200	10000	<0.047	U	0.19	0.047	<0.047	U	0.19	0.047	<0.047	U	0.18	0.047	<0.046	U	0.18	0.046	<0.047	U	0.19	0.047	<0.046	U	0.18	0.046
Caprolactam			<0.057	U	0.19	0.057	<0.057	U	0.19	0.057	<0.056	U	0.18	0.056	<0.055	U	0.18	0.055	<0.057	U	0.19	0.057	<0.056	U	0.18	0.056
Carbazole	24	110	0.056	J	0.19	0.018	<0.018	U	0.19	0.018	0.052	J	0.18	0.018	0.03	J	0.18	0.018	0.044	J	0.19	0.018	0.042	J	0.18	0.018
Chrysene	35	230	0.37		0.11	0.019	0.28		0.11	0.019	0.3		0.11	0.019	0.37		0.11	0.019	0.25		0.11	0.019	0.27		0.11	0.019
Di-n-butylphthalate	1700	4900	<0.035	U	0.19	0.035	<0.035	U	0.19	0.035	<0.035	U	0.18	0.035	<0.034	U	0.18	0.034	<0.035	U	0.19	0.035	<0.035	U	0.18	0.035
Di-n-octylphthalate	2200	10000	<0.063	U	0.19	0.063	<0.064	U	0.19	0.064	<0.063	U	0.18	0.063	<0.062	U	0.18	0.062	<0.064	U	0.19	0.064	<0.063	U	0.18	0.063
Dibenzo(a,h)anthracene	1	22	0.057	J	0.11	0.022	0.041	J	0.11	0.022	0.044	J	0.11	0.021	0.065	J	0.11	0.021	0.037	J	0.11	0.022	0.04	J	0.11	0.021
Dibenzofuran	110	310	0.026	J	0.19	0.018	0.098	J	0.19	0.018	0.026	J	0.18	0.018	<0.017	U	0.18	0.017	0.1	J	0.19	0.018	0.03	J	0.18	0.017
Diethyl phthalate	1000	2900	<0.017	U	0.19	0.017	<0.017	U	0.19	0.017	<0.017	U	0.18	0.017	<0.017	U	0.18	0.017	<0.017	U	0.19	0.017	<0.017	U	0.18	0.017
Dimethyl phthalate			<0.039	U	0.19	0.039	<0.039	U	0.19	0.039	<0.039	U	0.18	0.039	<0.038	U	0.18	0.038	<0.039	U	0.19	0.039	<0.039	U	0.18	0.039
Fluoranthene	3200	3200	0.88		0.11	0.021	0.69		0.11	0.021	0.7		0.11	0.021	0.84		0.11	0.021	0.57		0.11	0.021	0.66		0.11	0.021
Fluorene	3400	3800	0.052	J	0.19	0.018	0.23		0.19	0.018	0.046	J	0.18	0.018	0.028	J	0.18	0.018	0.28		0.19	0.018	0.058	J	0.18	0.018
Hexachlorobenzene	0.96	0.96	<0.021	U	0.11	0.021	<0.021	U	0.11	0.021	<0.021	U	0.11	0.021	<0.02	U	0.11	0.02	<0.021	U	0.11	0.021	<0.021	U	0.11	0.021
Hexachlorobutadiene	11	52	<0.027	U	0.19	0.027	<0.027	U	0.19	0.027	<0.027	U	0.18	0.027	<0.027	U	0.18	0.027	<0.027	U	0.19	0.027	<0.027	U	0.18	0.027
Hexachlorocyclopentadiene	91	91	<0.17	U	0.53	0.17	<0.17	U	0.53	0.17	<0.17	U	0.53	0.17	<0.16	U	0.52	0.16	<0.17	U	0.53	0.17	<0.17	U	0.53	0.17
Hexachloroethane	0.56	0.56	<0.03	U	0.15	0.03	<0.03	U	0.15	0.03	<0.03	U	0.15	0.03	<0.029	U	0.14	0.029	<0.03	U	0.15	0.03	<0.03	U	0.15	0.03
Indeno(1,2,3-cd)pyrene	3.5	76	0.28		0.15	0.026	0.17		0.15	0.026	0.19		0.15	0.026	0.26		0.14	0.025	0.16		0.15	0.026	0.18		0.15	0.026
Isophorone	1.9	1.9	<0.024	U	0.17	0.024	<0.024	U	0.17	0.024	<0.024	U	0.17	0.024	<0.024	U	0.16	0.024	<0.024	U	0.17	0.024	<0.024	U	0.16	0.024
Naphthalene	25	25	<0.023	U	0.19	0.023	<0.023	U	0.19	0.023	<0.022	U	0.18	0.022	0.029	J	0.18	0.022	<0.023	U	0.19	0.023	0.023	J	0.18	0.022
NDPA/DPA	23	110	<0.021	U	0.15	0.021	<0.021	U	0.15	0.021	<0.021	U	0.15	0.021	<0.021	U	0.14	0.021	<0.021	U	0.15	0.021	<0.021	U	0.15	0.021
Nitrobenzene	3.6	10	<0.028	U	0.17	0.028	<0.028	U	0.17	0.028	<0.027	U	0.17	0.027	<0.027	U	0.16	0.027	0.62		0.17	0.028	<0.027	U	0.16	0.027
p-Chloro-m-cresol	870	2500	<0.028	U	0.19	0.028	<0.028	U	0.19	0.028	<0.028	U	0.18	0.028	<0.027	U	0.18	0.027	<0.028	U	0.19	0.028	<0.027	U	0.18	0.027
Pentachlorophenol	5	5	<0.041	U	0.15	0.041	<0.041	U	0.15	0.041	<0.041	U	0.15	0.041	<0.04	U	0.14	0.04	<0.041	U	0.15	0.041	<0.04	U	0.15	0.04
Phenanthrene	10000	10000	0.51		0.11	0.023	0.31		0.11	0.023	0.43		0.11	0.022	0.42		0.11	0.022	0.56		0.11	0.023	0.3		0.11	0.022
Phenol	33	33	<0.028	U	0.19	0.028	<0.028	U	0.19	0.028	<0.028	U	0.18	0.028	<0.027	U	0.18	0.027	<0.028	U	0.19	0.028	<0.028	U	0.18	0.028
Pyrene	2200	2200	0.74		0.11	0.018	0.62		0.11	0.018	0.58		0.11	0.018	0.75		0.11	0.018	0.52		0.11	0.018	0.56		0.11	0.018
Total SVOCs			4.95	-	-	-	3.991	-	-	-	3.832	-	-	-	4.557	-	-	-	4.736	-	-	-	3.528	-	-	-

Table 3
Summary of Soil Pile Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Clean Fill Concentration Limits Criteria	Pennsylvania Regulated Fill Concentration Limits Criteria	B-1 (14-14.5)				B-12 (4.5-5)				B-12 (5.5-6)				B-13 (4.5-5)				B-14 (9.5-10)				B-15 (12-12.5)				B-2 (9.5-10)				B-3 (4.5-5)				B-7 (10-10.5)				B-7 (6.5-7)			
LAB ID:			L2158502-01				L2158502-08				L2158502-09				L2158502-10				L2158502-11				L2158502-12				L2158502-02				L2158502-03				L2158502-05				L2158502-04			
COLLECTION DATE:			10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021			
SAMPLE DEPTH:			14.0-14.5				4.5-5.0				5.5-6.0				4.5-5.0				9.5-10.0				12.0-12.5				9.5-10.0				4.5-5.0				10.0-10.5				6.5-7.0			
SAMPLE MATRIX:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
ANALYTE	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
SEMIVOLATILE ORGANICS BY GC/MS-SIM																																										
Bis(2-chloroethyl)ether	0.0045	0.023	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
n-Nitrosodi-n-propylamine	0.0014	0.0068	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Total SVOCs			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POLYCHLORINATED BIPHENYLS BY GC																																										
Aroclor 1016	9	46	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Aroclor 1221	0.18	0.83	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Aroclor 1232	0.14	0.7	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Aroclor 1242	4	20	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Aroclor 1248	9.3	46	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Aroclor 1254	4.4	46	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Aroclor 1260	9	46	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Aroclor 1262			-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Aroclor 1268			-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
PCBs, Total			-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
TOTAL METALS																																										
Aluminum, Total	190000		-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Antimony, Total	27	27	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Arsenic, Total	12	29	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Barium, Total	8200	8200	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Beryllium, Total	320	320	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Cadmium, Total	38	38	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Calcium, Total			-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Chromium, Total			-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Cobalt, Total	59	160	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Copper, Total	8100	43000	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Iron, Total	150000	190000	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Lead, Total	450	450	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Magnesium, Total			-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Manganese, Total	2000	2000	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Mercury, Total	10	10	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Nickel, Total	650	650	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Potassium, Total			-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Selenium, Total	26	26	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Silver, Total	84	84	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Sodium, Total			-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Thallium, Total	2.2	14	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Vanadium, Total	1100	16000	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
Zinc, Total	12000	12000	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-	
GENERAL CHEMISTRY																																										
Solids, Total			85.9		0.1	NA	87.8		0.1	NA	90.4		0.1	NA	88.4		0.1	NA	88		0.1	NA	86.4		0.1	NA	84.5		0.1	NA	84.1		0.1	NA	89.1		0.1	NA	86.8		0.1	NA

NOTES:
GC/MS - Gas Chromatography / Mass Spectrometry
J - The compound was detected; however, the concentration is below the laboratory method detection limit. Accordingly, this concentration is estimated.
MSC - Medium Specific Concentration
NS - No PADEP Soil Quality Standard established for this criteria
PADEP - Pennsylvania Department of Environmental Protection
Qual - Qualifier
SHS - Statewide Health Standard
SIM - Selected Ion Monitoring
TDS - Total Dissolved Solids
U - Compound was undetected at the listed laboratory method detection limit.
Concentrations reported in miligrams per kilogram (mg/kg)
Bolded and Highlighted concentrations are exceedances of the corresponding standard
Italicized results are reporting limits that exceed the corresponding standard

Table 3
Summary of Soil Pile Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Clean Fill Concentration Limits Criteria	Pennsylvania Regulated Fill Concentration Limits Criteria	B-8 (8-8.5)				B-9 (7.5-8)				COMP-1				COMP-10				COMP-11				COMP-12				COMP-2				COMP-3			
LAB ID:			L2158502-06				L2158502-07				L2158502-13				L2158502-22				L2158502-23				L2158502-24				L2158502-14				L2158502-15			
COLLECTION DATE:			10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021			
SAMPLE DEPTH:			8.0-8.5				7.5-8.0																									
SAMPLE MATRIX:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
ANALYTE	(mg/kg)	(mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
SEMIVOLATILE ORGANICS BY GC/MS-SIM																																		
Bis(2-chloroethyl)ether	0.0045	0.023	-		-	-	-		-	-	*<0.012*	*U*	*0.044*	*0.012*	*<0.011*	*U*	*0.039*	*0.011*	*<0.011*	*U*	*0.038*	*0.011*	*<0.01*	*U*	*0.037*	*0.01*	*<0.011*	*U*	*0.038*	*0.011*	*<0.01*	*U*	*0.038*	*0.01*
n-Nitrosodi-n-propylamine	0.0014	0.0068	-		-	-	-		-	-	*<0.011*	*U*	*0.044*	*0.011*	*<0.01*	*U*	*0.039*	*0.01*	*<0.01*	*U*	*0.038*	*0.01*	*<0.0098*	*U*	*0.037*	*0.0098*	*<0.01*	*U*	*0.038*	*0.01*	*<0.0099*	*U*	*0.038*	*0.0099*
Total SVOCs			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POLYCHLORINATED BIPHENYLS BY GC																																		
Aroclor 1016	9	46	-		-	-	-		-	-	<0.00389	U	0.0438	0.00389	<0.00344	U	0.0387	0.00344	<0.00334	U	0.0376	0.00334	<0.00329	U	0.037	0.00329	<0.00336	U	0.0379	0.00336	<0.00332	U	0.0374	0.00332
Aroclor 1221	0.18	0.83	-		-	-	-		-	-	<0.00439	U	0.0438	0.00439	<0.00388	U	0.0387	0.00388	<0.00377	U	0.0376	0.00377	<0.00371	U	0.037	0.00371	<0.00379	U	0.0379	0.00379	<0.00375	U	0.0374	0.00375
Aroclor 1232	0.14	0.7	-		-	-	-		-	-	<0.00928	U	0.0438	0.00928	<0.0082	U	0.0387	0.0082	<0.00797	U	0.0376	0.00797	<0.00785	U	0.037	0.00785	<0.00803	U	0.0379	0.00803	<0.00794	U	0.0374	0.00794
Aroclor 1242	4	20	-		-	-	-		-	-	<0.0059	U	0.0438	0.0059	<0.00522	U	0.0387	0.00522	<0.00507	U	0.0376	0.00507	<0.00499	U	0.037	0.00499	<0.0051	U	0.0379	0.0051	<0.00505	U	0.0374	0.00505
Aroclor 1248	9.3	46	-		-	-	-		-	-	<0.00657	U	0.0438	0.00657	<0.0058	U	0.0387	0.0058	<0.00564	U	0.0376	0.00564	<0.00556	U	0.037	0.00556	<0.00568	U	0.0379	0.00568	<0.00562	U	0.0374	0.00562
Aroclor 1254	4.4	46	-		-	-	-		-	-	<0.00479	U	0.0438	0.00479	<0.00423	U	0.0387	0.00423	<0.00411	U	0.0376	0.00411	0.0153	J	0.037	0.00405	<0.00414	U	0.0379	0.00414	<0.0041	U	0.0374	0.0041
Aroclor 1260	9	46	-		-	-	-		-	-	<0.00809	U	0.0438	0.00809	<0.00715	U	0.0387	0.00715	<0.00695	U	0.0376	0.00695	<0.00684	U	0.037	0.00684	<0.007	U	0.0379	0.007	<0.00692	U	0.0374	0.00692
Aroclor 1262			-		-	-	-		-	-	<0.00556	U	0.0438	0.00556	<0.00491	U	0.0387	0.00491	<0.00477	U	0.0376	0.00477	<0.0047	U	0.037	0.0047	<0.00481	U	0.0379	0.00481	<0.00475	U	0.0374	0.00475
Aroclor 1268			-		-	-	-		-	-	<0.00454	U	0.0438	0.00454	<0.00401	U	0.0387	0.00401	<0.00389	U	0.0376	0.00389	<0.00384	U	0.037	0.00384	<0.00392	U	0.0379	0.00392	<0.00388	U	0.0374	0.00388
PCBs, Total			-		-	-	-		-	-	<0.00389	U	0.0438	0.00389	<0.00344	U	0.0387	0.00344	<0.00334	U	0.0376	0.00334	0.0153	J	0.037	0.00329	<0.00336	U	0.0379	0.00336	<0.00332	U	0.0374	0.00332
TOTAL METALS																																		
Aluminum, Total	190000		-		-	-	-		-	-	9840		10.4	2.81	10300		9.52	2.57	11000		9.26	2.5	10700		8.89	2.4	7850		9.33	2.52	9460		9.11	2.46
Antimony, Total	27	27	-		-	-	-		-	-	<0.396	U	5.21	0.396	<0.362	U	4.76	0.362	<0.352	U	4.63	0.352	<0.338	U	4.44	0.338	<0.354	U	4.66	0.354	<0.346	U	4.56	0.346
Arsenic, Total	12	29	-		-	-	-		-	-	1.85		1.04	0.217	1.78		0.952	0.198	2.22		0.926	0.192	2.57		0.889	0.185	1.25		0.933	0.194	1.69		0.911	0.19
Barium, Total	8200	8200	-		-	-	-		-	-	98.9		1.04	0.181	95.7		0.952	0.166	118		0.926	0.161	127		0.889	0.155	81.8		0.933	0.162	101		0.911	0.158
Beryllium, Total	320	320	-		-	-	-		-	-	0.542		0.521	0.034	0.59		0.476	0.031	0.639		0.463	0.031	0.836		0.444	0.029	0.448	J	0.466	0.031	0.556		0.456	0.03
Cadmium, Total	38	38	-		-	-	-		-	-	0.479	J	1.04	0.102	0.457	J	0.952	0.093	0.555	J	0.926	0.091	0.569	J	0.889	0.087	0.392	J	0.933	0.091	0.483	J	0.911	0.089
Calcium, Total			-		-	-	-		-	-	2520		10.4	3.64	2630		9.52	3.33	3350		9.26	3.24	6960		8.89	3.11	1750		9.33	3.26	4930		9.11	3.19
Chromium, Total			-		-	-	-		-	-	34.7		1.04	0.1	40.1		0.952	0.091	62		0.926	0.089	155		0.889	0.085	22.5		0.933	0.09	40		0.911	0.088
Cobalt, Total	59	160	-		-	-	-		-	-	12.2		2.08	0.173	14.1		1.9	0.158	13.9		1.85	0.154	13.5		1.78	0.148	9.88		1.87	0.155	11.7		1.82	0.151
Copper, Total	8100	43000	-		-	-	-		-	-	22.4		1.04	0.269	19.4		0.952	0.246	22.3		0.926	0.239	32.4		0.889	0.229	15.8		0.933	0.241	20		0.911	0.235
Iron, Total	150000	190000	-		-	-	-		-	-	18600		5.21	0.94	18200		4.76	0.86	21200		4.63	0.836	21200		4.44	0.803	15400		4.66	0.842	17900		4.56	0.823
Lead, Total	450	450	-		-	-	-		-	-	60.6		5.21	0.279	56.2		4.76	0.255	76.4		4.63	0.248	81.6		4.44	0.238	51.1		4.66	0.25	85.7		4.56	0.244
Magnesium, Total			-		-	-	-		-	-	5130		10.4	1.6	5430		9.52	1.47	6020		9.26	1.42	665		8.89	1.37	4110		9.33	1.44	5220		9.11	1.4
Manganese, Total	2000	2000	-		-	-	-		-	-	318		1.04	0.166	326		0.952	0.151	381		0.926	0.147	383		0.889	0.141	251		0.933	0.148	308		0.911	0.145
Mercury, Total	10	10	-		-	-	-		-	-	0.092		0.086	0.056	0.104		0.075	0.049	0.145		0.077	0.05	0.112		0.074	0.048	0.054	J	0.08	0.052	0.109		0.078	0.051
Nickel, Total	650	650	-		-	-	-		-	-	17.6		2.6	0.252	18.3		2.38	0.23	20		2.31	0.224	22.6		2.22	0.215	13.6		2.33	0.226	16.6		2.28	0.22
Potassium, Total			-		-	-	-		-	-	5310		260	15	5700		238	13.7	5860		231	13.3	5840		222	12.8	4260		233	13.4	4880		228	13.1
Selenium, Total	26	26	-		-	-	-		-	-	<0.269	U	2.08	0.269	<0.246	U	1.9	0.246	0.463	J	1.85	0.239	0.329	J	1.78	0.229	<0.241	U	1.87	0.241	<0.235	U	1.82	0.235
Silver, Total	84	84	-		-	-	-		-	-	<0.295	U	1.04	0.295	<0.269	U	0.952	0.269	<0.262	U	0.926	0.262	<0.252	U	0.889	0.252	<0.264	U	0.933	0.264	<0.258	U	0.911	0.258
Sodium, Total			-		-	-	-		-	-	95.6	J	208	3.28	82.6	J	190	3	94	J	185	2.92	123	J	178	2.8	77.2	J	187	2.94	105	J	182	2.87
Thallium, Total	2.2	14	-		-	-	-		-	-	<0.328	U	2.08	0.328	<0.3	U	1.9	0.3	<0.292	U	1.85	0.292	<0.28	U	1.78	0.28	<0.294	U	1.87	0.294	<0.287	U	1.82	0.287
Vanadium, Total	1100	16000	-		-	-	-		-	-	29.1		1.04	0.211	29.6		0.952	0.193	33.4		0.926	0.188	31.8		0.889	0.18	23.6		0.933	0.189	27.2		0.911	0.185
Zinc, Total	12000	12000	-		-	-	-		-	-	68.9		5.21	0.305	78		4.76	0.279	78.5		4.63	0.271	126		4.44	0.26	55.7		4.66	0.273	68.5		4.56	0.267
GENERAL CHEMISTRY																																		
Solids, Total			87.8		0.1	NA	87.3		0.1	NA	74.6		0.1	NA	83.7		0.1	NA	85.2		0.1	NA	87.6		0.1	NA	85.4		0.1	NA	86		0.1	NA

NOTES:
GC/MS - Gas Chromatography / Mass Spectrometry
J - The compound was detected; however, the concentration is below the laboratory me
MSC - Medium Specific Concentration
NS - No PADEP Soil Quality Standard established for this criteria
PADEP - Pennsylvania Department of Environmental Protection
Qual - Qualifier
SHS - Statewide Health Standard
SIM - Selected Ion Monitoring
TDS - Total Dissolved Solids
U - Compound was undetected at the listed laboratory method detection limit.
Concentrations reported in miligrams per kilogram (mg/kg)
Bolded and Highlighted concentrations are exceedances of the corresponding standard
Italicized results are reporting limits that exceed the corresponding standard

Table 3
Summary of Soil Pile Soil Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:			COMP-4				COMP-5				COMP-6				COMP-7				COMP-8				COMP-9			
LAB ID:			L2158502-16				L2158502-17				L2158502-18				L2158502-19				L2158502-20				L2158502-21			
COLLECTION DATE:			10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021				10/25/2021			
SAMPLE DEPTH:																										
SAMPLE MATRIX:			SOIL				SOIL				SOIL				SOIL				SOIL				SOIL			
ANALYTE	Pennsylvania Clean Fill Concentration Limits Criteria (mg/kg)	Pennsylvania Regulated Fill Concentration Limits Criteria (mg/kg)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
SEMIVOLATILE ORGANICS BY GC/MS-SIM																										
Bis(2-chloroethyl)ether	0.0045	0.023	*<0.01*	*U*	*0.037*	*0.01*	*<0.01*	*U*	*0.037*	*0.01*	*<0.01*	*U*	*0.037*	*0.01*	*<0.01*	*U*	*0.036*	*0.01*	*<0.01*	*U*	*0.037*	*0.01*	*<0.01*	*U*	*0.037*	*0.01*
n-Nitrosodi-n-propylamine	0.0014	0.0068	*<0.0098*	*U*	*0.037*	*0.0098*	*<0.0098*	*U*	*0.037*	*0.0098*	*<0.0097*	*U*	*0.037*	*0.0097*	*<0.0095*	*U*	*0.036*	*0.0095*	*<0.0098*	*U*	*0.037*	*0.0098*	*<0.0096*	*U*	*0.037*	*0.0096*
Total SVOCs			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POLYCHLORINATED BIPHENYLS BY GC																										
Aroclor 1016	9	46	<0.0033	U	0.0372	0.0033	<0.0032	U	0.036	0.0032	<0.00319	U	0.0359	0.00319	<0.00315	U	0.0354	0.00315	<0.00323	U	0.0364	0.00323	<0.00323	U	0.0364	0.00323
Aroclor 1221	0.18	0.83	<0.00373	U	0.0372	0.00373	<0.00361	U	0.036	0.00361	<0.0036	U	0.0359	0.0036	<0.00355	U	0.0354	0.00355	<0.00364	U	0.0364	0.00364	<0.00364	U	0.0364	0.00364
Aroclor 1232	0.14	0.7	<0.00789	U	0.0372	0.00789	<0.00763	U	0.036	0.00763	<0.00761	U	0.0359	0.00761	<0.00751	U	0.0354	0.00751	<0.00771	U	0.0364	0.00771	<0.00771	U	0.0364	0.00771
Aroclor 1242	4	20	0.016	J	0.0372	0.00502	<0.00485	U	0.036	0.00485	<0.00484	U	0.0359	0.00484	<0.00478	U	0.0354	0.00478	<0.0049	U	0.0364	0.0049	<0.0049	U	0.0364	0.0049
Aroclor 1248	9.3	46	<0.00558	U	0.0372	0.00558	<0.0054	U	0.036	0.0054	0.0408		0.0359	0.00539	<0.00532	U	0.0354	0.00532	<0.00545	U	0.0364	0.00545	<0.00546	U	0.0364	0.00546
Aroclor 1254	4.4	46	<0.00407	U	0.0372	0.00407	0.00396	J	0.036	0.00394	<0.00393	U	0.0359	0.00393	<0.00388	U	0.0354	0.00388	<0.00398	U	0.0364	0.00398	<0.00398	U	0.0364	0.00398
Aroclor 1260	9	46	<0.00688	U	0.0372	0.00688	<0.00665	U	0.036	0.00665	<0.00664	U	0.0359	0.00664	<0.00655	U	0.0354	0.00655	<0.00672	U	0.0364	0.00672	<0.00672	U	0.0364	0.00672
Aroclor 1262			<0.00472	U	0.0372	0.00472	<0.00457	U	0.036	0.00457	<0.00456	U	0.0359	0.00456	<0.0045	U	0.0354	0.0045	<0.00462	U	0.0364	0.00462	<0.00462	U	0.0364	0.00462
Aroclor 1268			<0.00385	U	0.0372	0.00385	<0.00373	U	0.036	0.00373	<0.00372	U	0.0359	0.00372	<0.00367	U	0.0354	0.00367	<0.00377	U	0.0364	0.00377	<0.00377	U	0.0364	0.00377
PCBs, Total			0.016	J	0.0372	0.0033	0.00396	J	0.036	0.0032	0.0408		0.0359	0.00319	<0.00315	U	0.0354	0.00315	<0.00323	U	0.0364	0.00323	<0.00323	U	0.0364	0.00323
TOTAL METALS																										
Aluminum, Total	190000		11700		9.04	2.44	9160		9	2.43	11300		8.91	2.4	10000		8.71	2.35	7590		8.69	2.34	11000		8.8	2.38
Antimony, Total	27	27	<0.344	U	4.52	0.344	<0.342	U	4.5	0.342	<0.338	U	4.45	0.338	<0.331	U	4.35	0.331	<0.33	U	4.34	0.33	<0.334	U	4.4	0.334
Arsenic, Total	12	29	1.11		0.904	0.188	0.63	J	0.9	0.187	1.5		0.891	0.185	1.38		0.871	0.181	1.08		0.869	0.181	1.51		0.88	0.183
Barium, Total	8200	8200	147		0.904	0.157	111		0.9	0.156	130		0.891	0.155	139		0.871	0.152	90.1		0.869	0.151	148		0.88	0.153
Beryllium, Total	320	320	1.21		0.452	0.03	0.657		0.45	0.03	0.561		0.445	0.029	1.95		0.435	0.029	0.695		0.434	0.029	0.519		0.44	0.029
Cadmium, Total	38	38	0.543	J	0.904	0.089	0.405	J	0.9	0.088	0.57	J	0.891	0.087	0.653	J	0.871	0.085	0.469	J	0.869	0.085	0.511	J	0.88	0.086
Calcium, Total			2240		9.04	3.16	1390		9	3.15	2640		8.91	3.12	3810		8.71	3.05	2160		8.69	3.04	2650		8.8	3.08
Chromium, Total			33.5		0.904	0.087	20.6		0.9	0.086	50.9		0.891	0.086	40		0.871	0.084	22.8		0.869	0.083	36.1		0.88	0.085
Cobalt, Total	59	160	14.3		1.81	0.15	11.4		1.8	0.149	13.9		1.78	0.148	17.8		1.74	0.144	9.89		1.74	0.144	12.9		1.76	0.146
Copper, Total	8100	43000	28.5		0.904	0.233	25.2		0.9	0.232	25.2		0.891	0.23	61.7		0.871	0.225	24.8		0.869	0.224	22.6		0.88	0.227
Iron, Total	150000	190000	21900		4.52	0.817	16800		4.5	0.812	21900		4.45	0.804	22300		4.35	0.786	14600		4.34	0.784	20000		4.4	0.795
Lead, Total	450	450	298		4.52	0.242	30.2		4.5	0.241	44.9		4.45	0.239	75.7		4.35	0.233	41.9		4.34	0.233	36.9		4.4	0.236
Magnesium, Total			7170		9.04	1.39	5860		9	1.38	6880		8.91	1.37	6480		8.71	1.34	4930		8.69	1.34	7170		8.8	1.36
Manganese, Total	2000	2000	364		0.904	0.144	280		0.9	0.143	381		0.891	0.142	524		0.871	0.138	289		0.869	0.138	338		0.88	0.14
Mercury, Total	10	10	0.078	J	0.079	0.052	<0.048	U	0.074	0.048	0.128		0.077	0.05	0.136		0.074	0.048	0.121		0.074	0.048	0.073	J	0.075	0.049
Nickel, Total	650	650	22.1		2.26	0.219	16.2		2.25	0.218	21.3		2.23	0.216	20.4		2.18	0.211	14.1		2.17	0.21	21.5		2.2	0.213
Potassium, Total			7300		226	13	6380		225	13	7110		223	12.8	6190		218	12.5	4900		217	12.5	7220		220	12.7
Selenium, Total	26	26	0.271	J	1.81	0.233	0.234	J	1.8	0.232	0.303	J	1.78	0.23	0.427	J	1.74	0.225	0.426	J	1.74	0.224	0.581	J	1.76	0.227
Silver, Total	84	84	<0.256	U	0.904	0.256	<0.254	U	0.9	0.254	<0.252	U	0.891	0.252	<0.246	U	0.871	0.246	<0.246	U	0.869	0.246	<0.249	U	0.88	0.249
Sodium, Total			126	J	181	2.85	137	J	180	2.83	143	J	178	2.8	148	J	174	2.74	107	J	174	2.74	128	J	176	2.77
Thallium, Total	2.2	14	<0.285	U	1.81	0.285	<0.283	U	1.8	0.283	<0.28	U	1.78	0.28	<0.274	U	1.74	0.274	<0.274	U	1.74	0.274	<0.277	U	1.76	0.277
Vanadium, Total	1100	16000	32.2		0.904	0.184	24.8		0.9	0.183	31.7		0.891	0.181	32.3		0.871	0.177	23.6		0.869	0.176	32.1		0.88	0.179
Zinc, Total	12000	12000	154		4.52	0.265	122		4.5	0.264	88.1		4.45	0.261	357		4.35	0.255	154		4.34	0.254	76.2		4.4	0.258
GENERAL CHEMISTRY																										
Solids, Total			88.3		0.1	NA	87.6		0.1	NA	88.4		0.1	NA	89.5		0.1	NA	88		0.1	NA	88.6		0.1	NA

NOTES:
GC/MS - Gas Chromatography / Mass Spectrometry
J - The compound was detected; however, the concentration is below the laboratory me
MSC - Medium Specific Concentration
NS - No PADEP Soil Quality Standard established for this criteria
PADEP - Pennsylvania Department of Environmental Protection
Qual - Qualifier
SHS - Statewide Health Standard
SIM - Selected Ion Monitoring
TDS - Total Dissolved Solids
U - Compound was undetected at the listed laboratory method detection limit.
Concentrations reported in miligrams per kilogram (mg/kg)
Bolded and Highlighted concentrations are exceedances of the corresponding standard
Italicized results are reporting limits that exceed the corresponding standard

Table 4
Summary of Soil Pile Test Pits Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID: / LAB ID: / COLLECTION DATE: / SAMPLE DEPTH: / SAMPLE MATRIX: / ANALYTE	Pennsylvania Clean Fill Concentration Limits Criteria (mg/kg)	Pennsylvania Regulated Fill Concentration Limits Criteria (mg/kg)	COMP-13 L2158501-04 10/25/2021 SOIL				COMP-14 L2158501-05 10/25/2021 SOIL				COMP-15 L2158501-06 10/25/2021 SOIL				TP-1 L2158501-01 10/25/2021 SOIL				TP-11 L2158501-03 10/25/2021 SOIL				TP-5 L2158501-02 10/25/2021 SOIL			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY EPA 5035																										
1,1,1-Trichloroethane	7.2	7.2	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	U	0.00058	0.0002	<0.00019	U	0.00056	0.00019	<0.00017	U	0.00051	0.00017
1,1,2,2-Tetrachloroethane	0.026	0.13	-	-	-	-	-	-	-	-	-	-	-	-	<0.00019	U	0.00058	0.00019	<0.00019	U	0.00056	0.00019	<0.00017	U	0.00051	0.00017
1,1,2-Trichloro-1,2,2-Trifluoroethane	10000	10000	-	-	-	-	-	-	-	-	-	-	-	-	<0.00081	U	0.0047	0.00081	<0.00078	U	0.0045	0.00078	<0.0007	U	0.0041	0.0007
1,1,2-Trichloroethane	0.15	0.15	-	-	-	-	-	-	-	-	-	-	-	-	<0.00031	U	0.0012	0.00031	<0.0003	U	0.0011	0.0003	<0.00027	U	0.001	0.00027
1,1-Dichloroethane	0.75	3.9	-	-	-	-	-	-	-	-	-	-	-	-	<0.00017	U	0.0012	0.00017	<0.00016	U	0.0011	0.00016	<0.00015	U	0.001	0.00015
1,1-Dichloroethene	0.19	0.19	-	-	-	-	-	-	-	-	-	-	-	-	<0.00028	U	0.0012	0.00028	<0.00027	U	0.0011	0.00027	<0.00024	U	0.001	0.00024
1,2,3-Trichlorobenzene			-	-	-	-	-	-	-	-	-	-	-	-	<0.00038	U	0.0023	0.00038	<0.00036	U	0.0022	0.00036	<0.00033	U	0.002	0.00033
1,2,4-Trichlorobenzene	27	27	-	-	-	-	-	-	-	-	-	-	-	-	<0.00032	U	0.0023	0.00032	<0.0003	U	0.0022	0.0003	<0.00028	U	0.002	0.00028
1,2-Dibromo-3-chloropropane	0.0092	0.0092	-	-	-	-	-	-	-	-	-	-	-	-	<0.0012	U	0.0035	0.0012	<0.0011	U	0.0034	0.0011	<0.001	U	0.003	0.001
1,2-Dibromoethane	0.0012	0.0012	-	-	-	-	-	-	-	-	-	-	-	-	<0.00034	U	0.00058	0.00034	<0.00033	U	0.00056	0.00033	<0.0003	U	0.00051	0.0003
1,2-Dichlorobenzene	59	59	-	-	-	-	-	-	-	-	-	-	-	-	<0.00017	U	0.0023	0.00017	<0.00016	U	0.0022	0.00016	<0.00015	U	0.002	0.00015
1,2-Dichloroethane	0.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.0003	U	0.0012	0.0003	<0.00029	U	0.0011	0.00029	<0.00026	U	0.001	0.00026
1,2-Dichloroethene, Total			-	-	-	-	-	-	-	-	-	-	-	-	<0.00016	U	0.0012	0.00016	<0.00015	U	0.0011	0.00015	<0.00014	U	0.001	0.00014
1,2-Dichloropropane	0.11	0.11	-	-	-	-	-	-	-	-	-	-	-	-	<0.00015	U	0.0012	0.00015	<0.00014	U	0.0011	0.00014	<0.00013	U	0.001	0.00013
1,3-Dichlorobenzene	61	61	-	-	-	-	-	-	-	-	-	-	-	-	<0.00017	U	0.0023	0.00017	<0.00016	U	0.0022	0.00016	<0.00015	U	0.002	0.00015
1,3-Dichloropropene, Total	0.13		-	-	-	-	-	-	-	-	-	-	-	-	<0.00018	U	0.00058	0.00018	<0.00018	U	0.00056	0.00018	<0.00016	U	0.00051	0.00016
1,4-Dichlorobenzene	10	10	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	U	0.0023	0.0002	<0.00019	U	0.0022	0.00019	<0.00017	U	0.002	0.00017
1,4-Dioxane	0.084	0.42	-	-	-	-	-	-	-	-	-	-	-	-	<0.041	U	0.093	0.041	<0.039	U	0.09	0.039	<0.036	U	0.081	0.036
2-Butanone	76	76	-	-	-	-	-	-	-	-	-	-	-	-	<0.0026	U	0.012	0.0026	<0.0025	U	0.011	0.0025	<0.0022	U	0.01	0.0022
2-Hexanone	1.6	6.4	-	-	-	-	-	-	-	-	-	-	-	-	<0.0014	U	0.012	0.0014	<0.0013	U	0.011	0.0013	<0.0012	U	0.01	0.0012
4-Methyl-2-pentanone	51	140	-	-	-	-	-	-	-	-	-	-	-	-	<0.0015	U	0.012	0.0015	<0.0014	U	0.011	0.0014	<0.0013	U	0.01	0.0013
Acetone	430	1200	-	-	-	-	-	-	-	-	-	-	-	-	<0.012	U	0.029	0.012	<0.011	U	0.028	0.011	<0.01	U	0.025	0.01
Benzene	0.13	0.13	-	-	-	-	-	-	-	-	-	-	-	-	<0.00019	U	0.00058	0.00019	<0.00019	U	0.00056	0.00019	<0.00017	U	0.00051	0.00017
Bromochloromethane	1.6	1.6	-	-	-	-	-	-	-	-	-	-	-	-	<0.00024	U	0.0023	0.00024	<0.00023	U	0.0022	0.00023	<0.00021	U	0.002	0.00021
Bromodichloromethane	2.7	2.7	-	-	-	-	-	-	-	-	-	-	-	-	<0.00013	U	0.00058	0.00013	<0.00012	U	0.00056	0.00012	<0.00011	U	0.00051	0.00011
Bromoform	3.5	3.5	-	-	-	-	-	-	-	-	-	-	-	-	<0.00029	U	0.0047	0.00029	<0.00028	U	0.0045	0.00028	<0.00025	U	0.0041	0.00025
Bromomethane	0.54	0.54	-	-	-	-	-	-	-	-	-	-	-	-	<0.00068	U	0.0023	0.00068	<0.00065	U	0.0022	0.00065	<0.00059	U	0.002	0.00059
Carbon disulfide	130	530	-	-	-	-	-	-	-	-	-	-	-	-	<0.0053	U	0.012	0.0053	<0.0051	U	0.011	0.0051	<0.0046	U	0.01	0.0046
Carbon tetrachloride	0.26	0.26	-	-	-	-	-	-	-	-	-	-	-	-	<0.00027	U	0.0012	0.00027	<0.00026	U	0.0011	0.00026	<0.00023	U	0.001	0.00023
Chlorobenzene	6.1	6.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.00015	U	0.00058	0.00015	<0.00014	U	0.00056	0.00014	<0.00013	U	0.00051	0.00013
Chloroethane	5.4	26	-	-	-	-	-	-	-	-	-	-	-	-	<0.00053	U	0.0023	0.00053	<0.00051	U	0.0022	0.00051	<0.00046	U	0.002	0.00046
Chloroform	2	2	-	-	-	-	-	-	-	-	-	-	-	-	0.00024	J	0.0018	0.00016	0.00016	J	0.0017	0.00016	0.00023	J	0.0015	0.00014
Chloromethane	0.38	0.38	-	-	-	-	-	-	-	-	-	-	-	-	<0.0011	U	0.0047	0.0011	<0.001	U	0.0045	0.001	<0.00095	U	0.0041	0.00095
cis-1,2-Dichloroethene	1.6	1.6	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	U	0.0012	0.0002	<0.0002	U	0.0011	0.0002	<0.00018	U	0.001	0.00018
cis-1,3-Dichloropropene			-	-	-	-	-	-	-	-	-	-	-	-	<0.00018	U	0.00058	0.00018	<0.00018	U	0.00056	0.00018	<0.00016	U	0.00051	0.00016
Cyclohexane	1700	6900	-	-	-	-	-	-	-	-	-	-	-	-	<0.00064	U	0.012	0.00064	<0.00061	U	0.011	0.00061	<0.00055	U	0.01	0.00055
Dibromochloromethane	2.5	2.5	-	-	-	-	-	-	-	-	-	-	-	-	<0.00016	U	0.0012	0.00016	<0.00016	U	0.0011	0.00016	<0.00014	U	0.001	0.00014
Dichlorodifluoromethane	100	100	-	-	-	-	-	-	-	-	-	-	-	-	<0.0011	U	0.012	0.0011	<0.001	U	0.011	0.001	<0.00093	U	0.01	0.00093
Ethylbenzene	46	46	-	-	-	-	-	-	-	-	-	-	-	-	<0.00016	U	0.0012	0.00016	<0.00016	U	0.0011	0.00016	<0.00014	U	0.001	0.00014
Isopropylbenzene	600	2500	-	-	-	-	-	-	-	-	-	-	-	-	<0.00013	U	0.0012	0.00013	<0.00012	U	0.0011	0.00012	<0.00011	U	0.001	0.00011
Methyl Acetate	780	2200	-	-	-	-	-	-	-	-	-	-	-	-	<0.0011	U	0.0047	0.0011	<0.0011	U	0.0045	0.0011	<0.00096	U	0.0041	0.00096
Methyl cyclohexane			-	-	-	-	-	-	-	-	-	-	-	-	<0.0007	U	0.0047	0.0007	<0.00068	U	0.0045	0.00068	<0.00061	U	0.0041	0.00061
Methyl tert butyl ether	0.28	0.28	-	-	-	-	-	-	-	-	-	-	-	-	<0.00023	U	0.0023	0.00023	<0.00022	U	0.0022	0.00022	<0.0002	U	0.002	0.0002
Methylene chloride	0.076	0.076	-	-	-	-	-	-	-	-	-	-	-	-	<0.0027	U	0.0058	0.0027	<0.0026	U	0.0056	0.0026	<0.0023	U	0.0051	0.0023
o-Xylene			-	-	-	-	-	-	-	-	-	-	-	-	<0.00034	U	0.0012	0.00034	<0.00033	U	0.0011	0.00033	<0.0003	U	0.001	0.0003
p/m-Xylene			-	-	-	-	-	-	-	-	-	-	-	-	<0.00065	U	0.0023	0.00065	<0.00063	U	0.0022	0.00063	<0.00057	U	0.002	0.00057
Styrene	24	24	-	-	-	-	-	-	-	-	-	-	-	-	<0.00023	U	0.0012	0.00023	<0.00022	U	0.0011	0.00022	<0.0002	U	0.001	0.0002
Tetrachloroethene	0.43	0.43	-	-	-	-	-	-	-	-	-	-	-	-	<0.00023	U	0.00058	0.00023	<0.00022	U	0.00056	0.00022	<0.0002	U	0.00051	0.0002
Toluene	44	44	-	-	-	-	-	-	-	-	-	-	-	-	<0.00063	U	0.0012	0.00063	<0.00061	U	0.0011	0.00061	<0.00055	U	0.001	0.00055
trans-1,2-Dichloroethene	2.3	2.3	-	-	-	-	-	-	-	-	-	-	-	-	<0.00016	U	0.0018	0.00016	<0.00015	U	0.0017	0.00015	<0.00014	U	0.0015	0.00014
trans-1,3-Dichloropropene			-	-	-	-	-	-	-	-	-	-	-	-	<0.00032	U	0.0012	0.00032	<0.00031	U	0.0011	0.00031	<0.00028	U	0.001	0.00028
Trichloroethene	0.17	0.17	-	-	-	-	-	-	-	-	-	-	-	-	<0.00016	U	0.00058	0.00016	<0.00015	U	0.00056	0.00015	<0.00014	U	0.00051	0.00014
Trichlorofluoromethane	87	87	-	-	-	-	-	-	-	-	-	-	-	-	<0.00081	U	0.0047	0.00081	<0.00078	U	0.0045	0.00078	<0.00071	U	0.0041	0.00071
Vinyl chloride	0.027	0.027	-	-	-	-	-	-	-	-	-	-	-	-	<0.00039	U	0.0012	0.00039	<0.00038	U	0.0011	0.00038	<0.00034	U	0.001	0.00034
Xylenes, Total	990	990	-	-	-	-	-	-	-	-	-	-	-	-	<0.00034	U	0.0012	0.00034	<0.00033	U	0.0011	0.00033	<0.0003	U	0.001	0.0003
Total VOCs			-	-	-	-	-	-	-	-	-	-	-	-	0.00024	-	-	-	0.00016	-	-	-	0.00023	-	-	-

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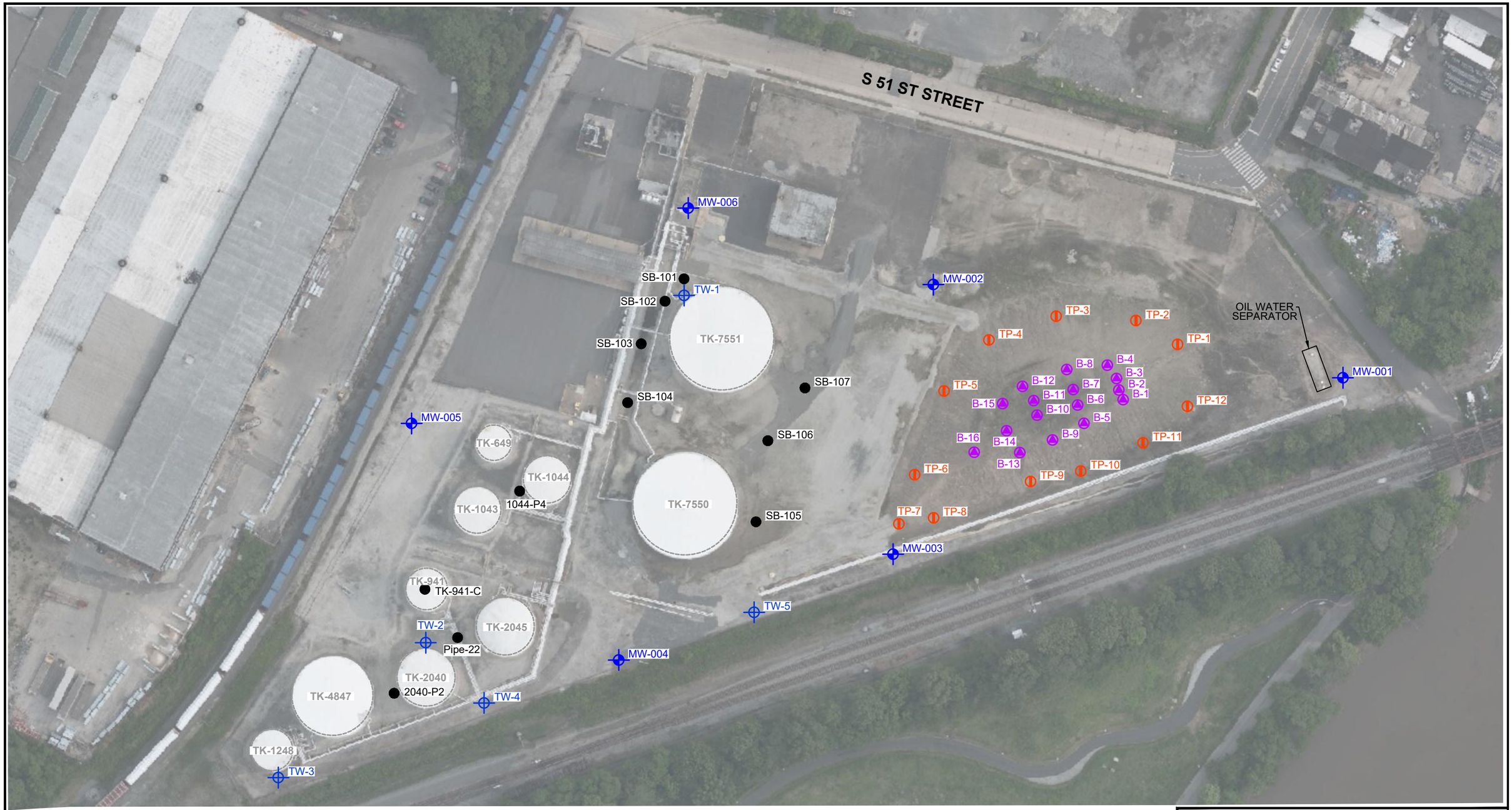
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID: / LAB ID: / COLLECTION DATE: / SAMPLE DEPTH: / SAMPLE MATRIX: / ANALYTE	Pennsylvania Clean Fill Concentration Limits Criteria (mg/kg)	Pennsylvania Regulated Fill Concentration Limits Criteria (mg/kg)	COMP-13 L2158501-04 10/25/2021 SOIL				COMP-14 L2158501-05 10/25/2021 SOIL				COMP-15 L2158501-06 10/25/2021 SOIL				TP-1 L2158501-01 10/25/2021 SOIL				TP-11 L2158501-03 10/25/2021 SOIL				TP-5 L2158501-02 10/25/2021 SOIL			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
SEMIVOLATILE ORGANICS BY GC/MS																												
1,2,4,5-Tetrachlorobenzene	6	16	<0.02	U	0.19	0.02	<0.02	U	0.19	0.02	<0.02	U	0.19	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	0.084	0.42	<0.0087	U	0.029	0.0087	<0.0087	U	0.029	0.0087	<0.0086	U	0.028	0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	2000	5500	<0.039	U	0.19	0.039	<0.038	U	0.19	0.038	<0.038	U	0.19	0.038	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	2600	7300	<0.037	U	0.19	0.037	<0.036	U	0.19	0.036	<0.036	U	0.19	0.036	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	12	34	<0.036	U	0.12	0.036	<0.036	U	0.11	0.036	<0.036	U	0.11	0.036	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	1	1	<0.031	U	0.17	0.031	<0.031	U	0.17	0.031	<0.03	U	0.17	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	36	100	<0.063	U	0.19	0.063	<0.063	U	0.19	0.063	<0.062	U	0.19	0.062	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	0.94	2.6	<0.089	U	0.92	0.089	<0.089	U	0.92	0.089	<0.087	U	0.9	0.087	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	0.057	0.26	<0.038	U	0.19	0.038	<0.038	U	0.19	0.038	<0.038	U	0.19	0.038	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	0.015	0.068	*<0.033*	*U*	*0.19*	*0.033*	*<0.033*	*U*	*0.19*	*0.033*	*<0.032*	*U*	*0.19*	*0.032*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	7000	20000	<0.019	U	0.19	0.019	<0.019	U	0.19	0.019	<0.019	U	0.19	0.019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	4.4	4.4	<0.023	U	0.19	0.023	<0.022	U	0.19	0.022	<0.022	U	0.19	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	680	1900	0.025	J	0.23	0.023	<0.023	U	0.23	0.023	<0.023	U	0.22	0.023	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	35	96	<0.03	U	0.19	0.03	<0.03	U	0.19	0.03	<0.029	U	0.19	0.029	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	8	21	<0.037	U	0.19	0.037	<0.037	U	0.19	0.037	<0.036	U	0.19	0.036	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	6.7	19	<0.072	U	0.41	0.072	<0.072	U	0.41	0.072	<0.07	U	0.4	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	8.8	42	<0.051	U	0.19	0.051	<0.051	U	0.19	0.051	<0.05	U	0.19	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Methylphenol/4-Methylphenol	4.9	14	<0.03	U	0.28	0.03	<0.03	U	0.28	0.03	<0.029	U	0.27	0.029	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline			<0.036	U	0.19	0.036	<0.036	U	0.19	0.036	<0.035	U	0.19	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-o-cresol			<0.092	U	0.5	0.092	<0.092	U	0.5	0.092	<0.09	U	0.49	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether			<0.029	U	0.19	0.029	<0.029	U	0.19	0.029	<0.029	U	0.19	0.029	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	0.47	2.1	<0.035	U	0.19	0.035	<0.035	U	0.19	0.035	<0.034	U	0.19	0.034	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether			<0.02	U	0.19	0.02	<0.02	U	0.19	0.02	<0.02	U	0.19	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	0.55	2.5	<0.079	U	0.19	0.079	<0.079	U	0.19	0.079	<0.078	U	0.19	0.078	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	4.1	4.1	<0.078	U	0.27	0.078	<0.078	U	0.27	0.078	<0.077	U	0.26	0.077	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	3100	4700	0.057	J	0.15	0.02	<0.02	U	0.15	0.02	<0.019	U	0.15	0.019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	2800	8000	<0.03	U	0.15	0.03	<0.029	U	0.15	0.029	<0.029	U	0.15	0.029	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	230	640	<0.024	U	0.19	0.024	<0.024	U	0.19	0.024	<0.023	U	0.19	0.023	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	350	350	0.12		0.12	0.037	<0.037	U	0.11	0.037	0.044	J	0.11	0.037	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	0.13	0.13	<0.067	U	0.15	0.067	<0.067	U	0.15	0.067	<0.066	U	0.15	0.066	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde			<0.052	U	0.25	0.052	<0.052	U	0.25	0.052	<0.051	U	0.25	0.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	6	130	0.36		0.12	0.022	0.15		0.11	0.022	0.18		0.11	0.021	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.58	12	0.29		0.15	0.047	0.13	J	0.15	0.046	0.16		0.15	0.046	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	3.5	76	0.4		0.12	0.032	0.17		0.11	0.032	0.21		0.11	0.032	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	180	180	0.18		0.15	0.022	0.084	J	0.15	0.022	0.098	J	0.15	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	4	76	0.13		0.12	0.031	0.068	J	0.11	0.03	0.081	J	0.11	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	40	190	<0.044	U	0.44	0.044	<0.044	U	0.44	0.044	<0.044	U	0.43	0.044	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-chloroethoxy)methane	3.4	9.2	<0.019	U	0.21	0.019	<0.019	U	0.21	0.019	<0.019	U	0.2	0.019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-chloroisopropyl)ether	8	8	<0.033	U	0.23	0.033	<0.033	U	0.23	0.033	<0.032	U	0.22	0.032	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	130	130	<0.066	U	0.19	0.066	<0.066	U	0.19	0.066	<0.065	U	0.19	0.065	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzyl phthalate	3200	10000	<0.048	U	0.19	0.048	<0.048	U	0.19	0.048	<0.047	U	0.19	0.047	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam			<0.058	U	0.19	0.058	<0.058	U	0.19	0.058	<0.057	U	0.19	0.057	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	24	110	0.063	J	0.19	0.019	0.021	J	0.19	0.018	0.022	J	0.19	0.018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	35	230	0.33		0.12	0.02	0.14		0.11	0.02	0.17		0.11	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	1700	4900	<0.036	U	0.19	0.036	<0.036	U	0.19	0.036	<0.036	U	0.19	0.036	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octylphthalate	2200	10000	<0.065	U	0.19	0.065	<0.065	U	0.19	0.065	<0.064	U	0.19	0.064	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	1	22	0.047	J	0.12	0.022	0.023	J	0.11	0.022	0.025	J	0.11	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	110	310	0.03	J	0.19	0.018	<0.018	U	0.19	0.018	<0.018	U	0.19	0.018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	1000	2900	<0.018	U	0.19	0.018	<0.018	U	0.19	0.018	<0.017	U	0.19	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate			<0.04	U	0.19	0.04	<0.04	U	0.19	0.04	<0.039	U	0.19	0.039	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	3200	3200	0.72		0.12	0.022	0.28		0.11	0.022	0.34		0.11	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	3400	3800	0.058	J	0.19	0.019	<0.018	U	0.19	0.018	<0.018	U	0.19	0.018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.96	0.96	<0.021	U	0.12	0.021	<0.021	U	0.11	0.021	<0.021	U	0.11	0.021	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	11	52	<0.028	U	0.19	0.028	<0.028	U	0.19	0.028	<0.027	U	0.19	0.027	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	91	91	<0.17	U	0.55	0.17	<0.17	U	0.55	0.17	<0.17	U	0.54	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	0.56	0.56	<0.031	U	0.15	0.031	<0.031	U	0.15	0.031	<0.03	U	0.15	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	3.5	76	0.2		0.15	0.027	0.095	J	0.15	0.027	0.1	J	0.15	0.026	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	1.9	1.9	<0.025	U	0.17	0.025	<0.025	U	0.17	0.025	<0.024	U	0.17	0.024	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	25	25	0.03	J	0.19	0.023	<0.023	U	0.19	0.023	<0.023	U	0.19	0.023	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NDPA/DPA	23	110	<0.022	U	0.15	0.022	<0.022	U	0.15	0.022	<0.021	U	0.15	0.021	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	3.6	10	<0.028	U	0.17	0.028	<0.028	U	0.17	0.028	<0.028	U	0.17	0.028	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p-Chloro-m-cresol	870	2500	<0.028	U	0.19	0.028	<0.028	U	0.19	0.028	<0.028	U	0.19	0.028	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	5	5	<0.042	U	0.15	0.042	<0.042	U	0.15	0.042	<0.041	U	0.15	0.041	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	10000	10000	0.49		0.12	0.023	0.15		0.11	0.023	0.19		0.11	0.023	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	33	33	<0.029	U	0.19	0.029	<0.029	U	0.19	0.029	<0.028	U	0.19	0.028	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	2200	2200	0.6		0.12	0.019	0.24		0.11	0.019	0.3		0.11	0.019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total SVOCs			4.13	-	-	-	1.551	-	-	-	1.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Table 4
Summary of Soil Pile Test Pits Sampling Results
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID: / LAB ID: / COLLECTION DATE: / SAMPLE DEPTH: / SAMPLE MATRIX: / ANALYTE	Pennsylvania Clean Fill Concentration Limits Criteria (mg/kg)	Pennsylvania Regulated Fill Concentration Limits Criteria (mg/kg)	COMP-13 L2158501-04 10/25/2021 SOIL				COMP-14 L2158501-05 10/25/2021 SOIL				COMP-15 L2158501-06 10/25/2021 SOIL				TP-1 L2158501-01 10/25/2021 SOIL				TP-11 L2158501-03 10/25/2021 SOIL				TP-5 L2158501-02 10/25/2021 SOIL			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
SEMIVOLATILE ORGANICS BY GC/MS-SIM																										
Bis(2-chloroethyl)ether	0.0045	0.023	*<0.011*	*U*	*0.038*	*0.011*	*<0.011*	*U*	*0.038*	*0.011*	*<0.01*	*U*	*0.038*	*0.01*	-	-	-	-	-	-	-	-	-	-	-	-
n-Nitrosodi-n-propylamine	0.0014	0.0068	*<0.01*	*U*	*0.038*	*0.01*	*<0.01*	*U*	*0.038*	*0.01*	*<0.0098*	*U*	*0.038*	*0.0098*	-	-	-	-	-	-	-	-	-	-	-	-
Total SVOCs			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
POLYCHLORINATED BIPHENYLS BY GC																										
Aroclor 1016	9	46	<0.00334	U	0.0376	0.00334	<0.00332	U	0.0374	0.00332	<0.00336	U	0.0379	0.00336	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1221	0.18	0.83	<0.00376	U	0.0376	0.00376	<0.00374	U	0.0374	0.00374	<0.0038	U	0.0379	0.0038	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1232	0.14	0.7	<0.00796	U	0.0376	0.00796	<0.00792	U	0.0374	0.00792	<0.00803	U	0.0379	0.00803	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1242	4	20	<0.00506	U	0.0376	0.00506	<0.00504	U	0.0374	0.00504	<0.00511	U	0.0379	0.00511	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1248	9.3	46	<0.00564	U	0.0376	0.00564	<0.00561	U	0.0374	0.00561	<0.00568	U	0.0379	0.00568	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1254	4.4	46	<0.00411	U	0.0376	0.00411	<0.00409	U	0.0374	0.00409	<0.00414	U	0.0379	0.00414	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1260	9	46	<0.00694	U	0.0376	0.00694	<0.00691	U	0.0374	0.00691	<0.007	U	0.0379	0.007	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1262			<0.00477	U	0.0376	0.00477	<0.00475	U	0.0374	0.00475	<0.00481	U	0.0379	0.00481	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268			<0.00389	U	0.0376	0.00389	<0.00387	U	0.0374	0.00387	<0.00392	U	0.0379	0.00392	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Total			<0.00334	U	0.0376	0.00334	<0.00332	U	0.0374	0.00332	<0.00336	U	0.0379	0.00336	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL METALS																										
Aluminum, Total	190000		11200		8.92	2.41	7940		9.3	2.51	10300		9	2.43	-	-	-	-	-	-	-	-	-	-	-	-
Antimony, Total	27	27	<0.339	U	4.46	0.339	<0.354	U	4.65	0.354	<0.342	U	4.5	0.342	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic, Total	12	29	2.38		0.892	0.185	1.92		0.93	0.194	1.73		0.9	0.187	-	-	-	-	-	-	-	-	-	-	-	-
Barium, Total	8200	8200	120		0.892	0.155	89.5		0.93	0.162	118		0.9	0.157	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium, Total	320	320	0.776		0.446	0.029	0.437	J	0.465	0.031	0.504		0.45	0.03	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium, Total	38	38	0.57	J	0.892	0.087	0.447	J	0.93	0.091	0.504	J	0.9	0.088	-	-	-	-	-	-	-	-	-	-	-	-
Calcium, Total			4090		8.92	3.12	2990		9.3	3.26	3020		9	3.15	-	-	-	-	-	-	-	-	-	-	-	-
Chromium, Total			83.3		0.892	0.086	95.8		0.93	0.089	53		0.9	0.086	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	59	160	14.5		1.78	0.148	9.93		1.86	0.154	13.1		1.8	0.149	-	-	-	-	-	-	-	-	-	-	-	-
Copper, Total	8100	43000	31.4		0.892	0.23	17.5		0.93	0.24	23		0.9	0.232	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Total	150000	190000	20900		4.46	0.805	16300		4.65	0.84	19600		4.5	0.813	-	-	-	-	-	-	-	-	-	-	-	-
Lead, Total	450	450	79.6		4.46	0.239	91.8		4.65	0.249	64.1		4.5	0.241	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium, Total			6210		8.92	1.37	4260		9.3	1.43	5950		9	1.39	-	-	-	-	-	-	-	-	-	-	-	-
Manganese, Total	2000	2000	352		0.892	0.142	269		0.93	0.148	349		0.9	0.143	-	-	-	-	-	-	-	-	-	-	-	-
Mercury, Total	10	10	0.107		0.073	0.048	0.15		0.078	0.051	0.105		0.076	0.049	-	-	-	-	-	-	-	-	-	-	-	-
Nickel, Total	650	650	31.9		2.23	0.216	14.6		2.33	0.225	19.3		2.25	0.218	-	-	-	-	-	-	-	-	-	-	-	-
Potassium, Total			5960		223	12.8	4220		233	13.4	5980		225	13	-	-	-	-	-	-	-	-	-	-	-	-
Selenium, Total	26	26	0.624	J	1.78	0.23	0.363	J	1.86	0.24	0.378	J	1.8	0.232	-	-	-	-	-	-	-	-	-	-	-	-
Silver, Total	84	84	<0.252	U	0.892	0.252	<0.263	U	0.93	0.263	<0.255	U	0.9	0.255	-	-	-	-	-	-	-	-	-	-	-	-
Sodium, Total			130	J	178	2.81	72.8	J	186	2.93	103	J	180	2.84	-	-	-	-	-	-	-	-	-	-	-	-
Thallium, Total	2.2	14	<0.281	U	1.78	0.281	<0.293	U	1.86	0.293	<0.284	U	1.8	0.284	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium, Total	1100	16000	36		0.892	0.181	24.4		0.93	0.189	29.2		0.9	0.183	-	-	-	-	-	-	-	-	-	-	-	-
Zinc, Total	12000	12000	112		4.46	0.261	55.9		4.65	0.273	69.7		4.5	0.264	-	-	-	-	-	-	-	-	-	-	-	-
GENERAL CHEMISTRY																										
Solids, Total			85.3		0.1	NA	85.7		0.1	NA	86.6		0.1	NA	81.5		0.1	NA	83.2		0.1	NA	87.7		0.1	NA

NOTES:
GC/MS - Gas Chromatography / Mass Spectrometry
J - The compound was detected; however, the concentration is below the laboratory method detection limit. Accordingly, this concentration is estimated.
MSC - Medium Specific Concentration
NS - No PADEP Soil Quality Standard established for this criteria
PADEP - Pennsylvania Department of Environmental Protection
Qual - Qualifier
SHS - Statewide Health Standard
SIM - Selected Ion Monitoring
TDS - Total Dissolved Solids
U - Compound was undetected at the listed laboratory method detection limit.
Concentrations reported in miligrams per kilogram (mg/kg)
Bolded and Highlighted concentrations are exceedances of the corresponding standard
Italicized results are reporting limits that exceed the corresponding standard



LEGEND:

- MONITORING WELL
- TEMPORARY WELL
- SOIL BORING
- SOIL PILE BORING LOCATION
- TEST PIT

TK-941 FORMER TANK AND TANK IDENTIFICATION

SOURCE:

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0 100' 200'

GRAPHIC SCALE

ALLIANCE HSP VENTURES
1646 S 51 ST STREET
PHILADELPHIA, PENNSYLVANIA

SITE PLAN WITH SAMPLING LOCATIONS

ARCADIS

FIGURE 2

C:\BIM\OneDrive - ARCADIS\BIM360 - OneDrive Sync Location\AUS-ALLIANCE HSP VENTURES-1646 S 51 ST STREET-PHILADELPHIA Pennsylvania\2021\01-In Progress\01-DWG\GEN-2021-F02-SITE PLAN.dwg LAYOUT: 2 SAVED: 11/10/2021 2:43 PM ACADVER: 24.0S (LMS TECH) PAGESETUP: ----
PLOTTED: 11/10/2021 2:43 PM BY: HALLIWELL, TRISH

APPENDIX A

BORING LOGS

ARCADIS Page 1 of ____

Sample Log

Well/Boring R-1 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 10/25/21 Drilling Completed 10/25/21

Total Depth Drilled 15 feet Hole Diameter 1.75 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jesse

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	3.5		0-5 Brown fine silty sand w/	0
				gravel, Min Brick fragments, Brick, PS, dry	0
					0
					0
					0
5	10	4		SAA	0
					0
					0
					0
					0
10	15	4.75		SM, Mixt concrete @ 11	0
				Brick @ 13'	0
					0
					0
					24/20

4.1-4.5 PID 9.5-10 PID 14-14.5 PID

ARCADIS

Sample Log

Well/Boring R-2 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 10/25/21 Drilling Completed 10/25/21

Total Depth Drilled 15 feet Hole Diameter 1.75 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jesse

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4	X	C-4 Brown f-m silty sand	0/0
				w/ GR Pebbles, Concrete, Brick, PS	0/0
				4-5 Concrete	0/0
					0/0
					0/0
5	10	4FT	~~4.5~~	SAA	0/0
					0/0
					0/0
					0/0
					0/0
10	15	5		SAA, Water Coming at 13.5-14	X
					0/0
					0/0
					0/0
					0/0

3.5-4 920

9.5-10 921

14.5-15 920

ARCADIS

Sample Log

Well/Boring R-7 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 10/25/21 Drilling Completed 10/25/21

Total Depth Drilled 15 feet Hole Diameter 1.75 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Josh

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-5 Brown f-m silty sand	0/0
1					0/0
2					0/0
3					0/0
4					0/0
5	10	4		5-10 SAND water bring	0/0
6					0/0
7					0/0
8					0/0
9					0/0
10	15	5		10-15 SAND	0/0
11					0/0
12					0/0
13					0/0
14					0/0

4.5-5 gas

9.9-10 gas

14.9-15 gas

ARCADIS Page ____ of ____

Sample Log

Well/Boring B-4 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 12/27/17 Drilling Completed 12/27/17

Total Depth Drilled 14 feet Hole Diameter 1.75 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Josh

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-5 light Roman f.M grey fine	0/0
				w/ concrete, gravel, mica, PS	0/0
					0/0
					0/0
					0/0
5	10	7		SAND, organic material, moist	0/0
				concrete 14-14.7'	0/0
					0/0
					0/0
					0/0
10	15	4		SAND	0/0
					0/0
					0/0
					0/0
					0/0

11.5
950

~~TRAVEL~~ 845-9 14.5-11
9m 1 1 C

ARCADIS

Sample Log

Well/Boring R-5 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 10/25/24 Drilling Completed 10/24/24

Total Depth Drilled 14 feet Hole Diameter 1.75 inches Sampling Interval ___ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Josh

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-5 light brown fine silty sand	0.0/0.0
				w/ many rootlets @ 5'	0.0/0.0
					0.0/0.0
					0.0/0.0
					0.0/0.0
5	10	4.75		SAA	0.0/0.0
					0.0/0.0
					0.0/0.0
					0.0/0.0
					0.0/0.0
10	15	5		SAA	0.0/0.0
					0.0/0.0
					0.0/0.0
					0.0/0.0
					0.0/0.0

4.5-5 recv

9-9.5 recv

14-14.5 rec

ARCADIS

Sample Log

Well/Boring R-6 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 10/24/12 Drilling Completed 10/25/12

Total Depth Drilled 15 feet Hole Diameter 1.75 inches Sampling Interval ___ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Joey

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	5		0-5 Fill Asphalt Gravel w/ silty concrete, brick,	0.0 / 0.0
					0.1 / 0.0
					0.1 / 0.0
					0.0 / 0.0
					0.0 / 0.0
5	10	5		5-10 Silty Clay	0.0 / 0.0
				6.4-7	0.0 / 0.5
					0.3 / 0.0
					0.0 / 0.1
					0.0 / 0.0
10	15	5		10-15 Silty Clay	10.6 / 3.2
					1.2 / 0.7
					0.4 / 0.2
					0.2 / 0.2
					0.2 / 0.1

32.5 lost

6.4-7 lost

10.6 lost

ARCADIS

Sample Log

Well/Boring B-7 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 10/25/12 Drilling Completed 10/24/12

Total Depth Drilled 15 feet Hole Diameter 1.75 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	5		0-5 light brown fine silty sand	0 / 0
				w/ mica, GR pebbly, coarse sand	0 / 0
					0.1 / 0.1
					0 / 0.7
					0.6 / 0.7
5	6	5		SAA	0 / 0
					0.3 / 14.2
					16.4 / 4.5
					1.6 / 0.7
					1.2 / 0.5
10	15	5		SAA	11.7 / 6.8
					0.6 / 0.5
					0.4 / 0.3
					0.2 / 0.1
					0 / 0

3.5-4 1020

6.5-7 1025

10-10.5 1030

ARCADIS Page 1 of 1

Sample Log

Well/Boring B-8 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 10/25/21 Drilling Completed 10/25/21

Total Depth Drilled 15 feet Hole Diameter 1.75 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-4 Brown f-m silty clay w/ GR Rebar, brick, concrete, misc Fr	0/0
					0/0
					0/0
					0/0
					0/0.8
5	10	5		GM, Gray @ 7-7.5	0/91
					-/0
					-/0.8
					19.8/13.9
					9.3/9.2
10	15	5		GM, Rock @ 12-12.4	1.5/0.5
					7.7/0.9
					9.9/93
					89/0.7
					93/94

4.5-5 ICE

8-8.4 IC10

IC15

Sample Log

Well/Boring B-9 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 10/24/21 Drilling Completed 10/25/21

Total Depth Drilled 15 feet Hole Diameter 1.75 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jess

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		C-F Brown Fine Silty Sand	0 / 0
"				w/ GR Rocks, moist, Rock	0 / 0
"					0 / 0
"					0 / 0
"					0 / 0
5	10	4		SAK	0 / 0
"					0 / 0
"					0 / 4.8
"					0.4 / 0.4
~~10~~	~~15~~	1		~~SAK~~	0.1
10	15	5		SAND	0.4 / 0.4
					0.4 / 2.2
					0.4 / 0.3
					0.8 / 0.2
					0.2 / 0.0

11.9-12 11:05

7.9-8 11:00

11.4-12 11:05

ARCADIS

Sample Log

Well/Boring R-1C

Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa

Drilling Started 10/25/11

Drilling Completed 10/25/11

Total Depth Drilled 11 feet

Hole Diameter 1.75 inches

Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x1.75"

Type of Sampling Device Macrocore

Drilling Method Direct Push

Drilling Fluid Used None

Drilling Contractor Hawk

Driller Andy

Helper Jeff

Prepared By M.Hilinski

Hammer Weight N/A

Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	5		C-F Brown Fine Silty Sand w/ GR Pebbly, PC, Cobbly, Grey Mica, Loose Organic	0/0
4	8	4		GAA	0/0
8	11	4.7		GAA	0/0

4.5-5 1120

7.5-10 1125

10.5-11 1132

Sample Log

Well/Boring R-4 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 10/25/21 Drilling Completed 10/25/21

Total Depth Drilled 15 feet Hole Diameter 1.75 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jerry

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	5		n.a Brown f-m silty sand	1.5
				concrete, Crush, Misc, GR Pebbly	0.0
				FF	0.0
					0.0
					0.0
5	10	5		SAA	0.0
					0.0
					0.0
					0.0
					0.0
10	15	5		SAA	0.0
					0.0
					0.0
					0.0
					0.0

4.1-5 1125

9.9-10 1126

14.5-15 1141

ARCADIS

Sample Log

Well/Boring R-12 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 10/24/12 Drilling Completed 10/25/12

Total Depth Drilled 15 feet Hole Diameter 1.75 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jason

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	5		Brown f.-m. silty sand w/	0 / 0
"				Cobbles, GR Pebbles, mix, brick	0 / 0
"					0 / 0
"					0.2 / 0
"					0.9 / 102.1
5	10	5			2.5 / 14.8
"					3.3 / 4.1
"					14.6 / 3.1
"					4.1 / 0.7
"					1.8 / 0.8
10	15	5			6.4 / 4.2
					0.4 / 0.2
					0.1 / 0.2
					0.8 / 0.5
					0.2 / 0.2

4.5-5
1156

5.5-6
1158

Collect
1250

ARCADIS Page ____ of ____

Sample Log

Well/Boring R-17 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 12/29/21 Drilling Completed 12/29/21

Total Depth Drilled 15 feet Hole Diameter 1.75 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jesse

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	5		0-5 Brown Asphalt, Fill	0/0
"				GR Light Gray, Gravel, Mix, Pg	
"					
"					
"					
5	10	5		GR	
"					
"					
"					
"					
10	15	5		GRA	
					✓

Light 1254

Right 1254

Clutch 1307

Sample Log

Well/Boring R- 14 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 10/25/21 Drilling Completed 10/25/21

Total Depth Drilled 14 feet Hole Diameter 1.75 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jesse

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	3		CL Brown Rom fill, clay	0
				GR Pebbly, mixy with Crushed	0
					0
					0
					0
5	10	4		GW Major concrete @ 9	0
					0
					0
					0
					0
10	15	5		TOP	0
					0
					0
					0
					0

4.5-5 12F

9.5-10 12LF

Mixing 12LF

ARCADIS

Page ____ of ____

Sample Log

Well/Boring R-15 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 12/25/21 Drilling Completed 12/25/21

Total Depth Drilled 15 feet Hole Diameter 1.75 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	3		"Brown f-m silty sand, w/ coarse, grit, mica, PS	0/0
"					0/0
"					0/0
"					0/0
"					0/0
5	10	4.7		SAA	0/0
"					0/0
"					0/0
"					0/0
"					0/0
10	15	5		SAA	0/0
					0/0
					0/0
					0/0.1
					0/0

4.7 12-15

9.5-10 12-15

12-12.5 12-15

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Sample Log

Well/Boring R-116 Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started 10/25/21 Drilling Completed 10/25/21

Total Depth Drilled 16 feet Hole Diameter 1.75 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	5		Brown f-m silty sand	0
"				+ / cobble, FR pebble, brick	0
"					0
"					0
"					0
5	6	4.3		SAA	0
"					0
"					0
					0
					0
10	11	1		SAA	0
					0
					0
					0
					0

4.5-5 1220

9.5-10 1225

14.5-15 1230

ARCADIS

Page ____ of ____

TP-1 (PID) (Time)

Sample Log

Well/Boring _____

Site _____ Project Name and No. Alliance 51st Street Phila

Location Phila, Pa Drilling Started _____ Drilling Completed _____

Total Depth Drilled _____ feet Hole Diameter 1.75 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller _____ Helper _____

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
TP-3	~5 feet deep			Light Brown, Mica found throughout Bricks, Angular cobbles found throughout Damp. Till material, Sand sized grains Very loose Sample @ 950	0.0
TP4	~5 feet deep			Light brown Sand sized grains, ~~mod. damp~~ Loose, Damp. Angular cobbles Angular gravel, Bricks, Pipe found Sample @ 1005 Mica	0.0
TP-5	~5 feet deep			Light Brown Sand sized grains Loose damp Angular Cobbles & gravel throughout, Mica found throughout, Pipe found in pit Sample @ 1030 Bricks found throughout	0.0
TP-6	~5 feet deep			Light brown, Sand sized grains, loose, damp, Mica Bricks found throughout found throughout Large pipe found in Pit Sample @ 1045	0.0
TP-7	~5 feet deep			Light Brown, Sand grains, loose, damp mica found throughout, Angular Cobbles ~~Ang~~ Bricks throughout Sample @ 1100	0.0
TP-8	~5 feet deep			Light Brown, Sand sized grains w/ Mica throughout, loose, damp, Some angular gravel and cobbles Debris throughout	0.0

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Page ____ of ____

Sample Log

Well/Boring _____ Project Name and No. Alliance 51st Street Phila

Site Location Phila, Pa Drilling Started _____ Drilling Completed _____

Total Depth Drilled _____ feet Hole Diameter 1.75 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller _____ Helper _____

Prepared By M.Hilinski Hammer Weight N/A Hammer Drop N/A inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
TP-9	~	5 feet deep		Light Brown, sand sized grains, Loose, some dense sets mica throughout, some Angular gravel, some rounded gravel, Bricks in test pit Sample @ 1130	0.0
TP-10	~	5 feet deep		Light brown, sand sized grains, Loose, mica throughout, Bricks throughout, Some gravel throughout. Sample@ 1140	0.0
TP-11	~	5 feet deep		Light Brown, Sand sized grains, some dense sets damp, Angular gravel throughout, cement slab roughly 12 feet long, Bricks throughout Sample@1200	0.8
TP-12	~	5 feet deep		Light Brown, sand sized grains, damp, med density, some angular gravel, Sub angular cobbles throughout some bricks Sample@ 1215	0.0
TP-1	~	5 feet deep		Light Brown, Sand sized grains, damp, med density, Some angular cobbles, some gravel Sample@1225	0.0
TP-2	~	5 feet deep		Light Brown, Sand sized grains damp med density, Some gravel throughout, some bricks Sample@ 1215	0.0

Laboratory Report Not Included
(see laboratory analytical report appendix for all available lab reports)

From: Costello, Andrea <acostello@pa.gov>
Sent: Wednesday, January 15, 2025 11:48 AM
To: Anthony J. Reitano <areitano@heroldlaw.com>
Cc: Brunt, Larry <Larry.Brunt@arcadis.com>; Sabetta, Matthew <msabetta@pa.gov>; ecarlson@alliancehp.com; Brown, C David <cdbrown@pa.gov>
Subject: RE: [External] RE: Confirmed: DEP / Alliance 51st call

Arcadis Warning: Exercise caution with email messages from external sources such as this message. Always verify the sender and avoid clicking on links or scanning QR codes unless certain of their authenticity.

Good morning Anthony,

I hope you are doing well – happy new year to you too. DEP has reviewed the information you provided and your proposal for the HHRA for the trail area. DEP agrees that some of the chromium VI contamination may be pre-existing and some may come from other sources, such as the railroad embankment and material eroded/deposited by the river. DEP also agrees that it is unlikely that stormwater has discharged from Alliance's swale since last year.

However, Alliance should use all data in the area of the inferred release downgradient from the property line in the risk assessment. There is uncertainty with partitioning chromium VI contamination in those samples between residual chromium VI from the Alliance property release and possible other sources. Including all data from the area of the inferred release in the HHRA does not mean that the contamination was all caused by Alliance or that Alliance is entirely responsible for it (and that can be explained in the report). Doing so will be conservative and would demonstrate that the result of Alliance's remediation is protective of public health.

Based on your figures and DEP's knowledge of the site, we consider the following sample locations to be within the area that stormwater flowed off of the Alliance property and onto the trail and riverbank: S3, S5, S6, S7, S8, and S16. The most recent data from those points should be used to determine the exposure point concentration in the HHRA.

Please let us know if you would like to discuss this further.

Thank you,

Andrea

Andrea L. Costello (*she/her/hers)* | Assistant Counsel
Department of Environmental Protection | Office of Chief Counsel Southeast Regional Office
2 East Main Street | Norristown, PA 19401
Phone: 484.250.5871 | Email: acostello@pa.gov
www.dep.pa.gov

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From: Anthony J. Reitano <areitano@heroldlaw.com>
Sent: Thursday, January 9, 2025 1:19 PM
To: Brown, C David <cdbrown@pa.gov>
Cc: Larry.Brunt@arcadis.com; Costello, Andrea <acostello@pa.gov>; Patel, Ragesh <rapatel@pa.gov>; Sabetta, Matthew <msabetta@pa.gov>; ecarlson@alliancehp.com
Subject: RE: [External] RE: Confirmed: DEP / Alliance 51st call

Dave:

A belated Happy New Year to you and the PADEP team.

Following up on one remaining open item we owe PADEP before the HHRA is prepared. We all agreed that evaluating the source of the offsite hexavalent chromium (offsite vs the 51st property) was appropriate to determine the data Alliance should be including in its HHRA. Our evaluation was based upon the historical USGS maps and aerials, runoff flow patterns, the cleanups performed, the Alliance post cleanup sampling, the most recent PADEP sampling and documents we received on November 13, 2024 and the follow-up virtual meeting we had. The HHRA should be based upon current conditions.

Attached are four documents prepared to illustrate current conditions and the historical sources of the existing hexavalent chromium concentrations. Starting with the topographic elevation map, this is intended to show the source of the runoff that contributes to the drainage swale on the Alliance property. As illustrated in this figure, all the runoff from the Alliance side of the railroad tracks flows to the Alliance property and the drainage swale along the property line. Both the Alliance and PADEP sampling indicates there are sources of hexavalent chromium in the fill at locations unrelated to the Alliance property. One of the Alliance sample points, S-22 with a 3.9 mg/kg hexavalent chromium concentration, is shown in the figure and was located near the top of the slope on the Alliance side of the tracks. It is likely there is sporadic hexavalent chromium in the entire bank. The trail area general flow illustrates the runoff pattern along the trail. As we have previously explained, we reviewed the history of the Alliance site and surrounding area for areas that are reclaimed land likely filled in the early part of the 1900s. Attached is a summary of areas of potential filling prepared by Arcadis. We also note that the elevated rail line along the south east property line dates back to the late 1800s. A USGS map in the Arcadis document shows the rail line in 1891 off the south property line and going across the river. The rail line very likely has the same fill material along its embankment as in the Alliance property. Also, both Alliance and PADEP sampling found hexavalent chromium at S-21 which is unrelated to the Alliance property and the Alliance sampling. The attached sciver sand aerial is referenced in the attached summary.

As we discussed during our virtual meeting, the latest PADEP sample results along the river are likely the result of deposition of river sediments from the high tide and flooding from the river. The PADEP sampling was after the Alliance cleanup and its sampling and within a very dry period with little to no rainwater runoff which supports the river sediments as the source. It is also important to note, since Alliance made all the improvements to the swale on its property, we are not aware of any runoff leaving the property. Weekly inspections are conducted after rain events and sometimes during a rain event. By way of example, an Alliance representative was at the property in the afternoon of December 11, 2024 when there was heavy rain and no water was observed flowing in the swale and leaving the property.

After taking all of this information into account, we question whether Alliance should be responsible for any of the existing hexavalent chromium contamination. That said, Alliance is willing to prepare the HHRA based upon the existing data for S-3 and S-16A but not as an admission of responsibility for the hexavalent chromium currently at those locations. Alliance is prepared to proceed with the HHRA on this basis unless PADEP has any questions/comments. .

Thanks and regards, Anthony

HEROLD LAW
PROFESSIONAL ASSOCIATION

ANTHONY J. REITANO, ESQ.

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Fax: (908) 647-7721

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Warren, NJ 07059
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From: Brown, C David <cdbrown@pa.gov>
Sent: Friday, November 22, 2024 9:07 AM
To: Anthony J. Reitano <areitano@heroldlaw.com>; ecarlson@alliancehp.com
Cc: Larry.Brunt@arcadis.com; Costello, Andrea <acostello@pa.gov>; Patel, Ragesh <rapatel@pa.gov>; Sabetta, Matthew <msabetta@pa.gov>
Subject: RE: [External] RE: Confirmed: DEP / Alliance 51st call

Anthony and Eric,

We hope our discussion Wednesday helped clarify the issues you raised.

In another call earlier this week we received some stakeholder feedback on the Alliance site. The stakeholders were concerned with Act 2 remedies being selected before knowing that the site has been adequately characterized. We agree that this is a reasonable concern, and we recommend that you separate the remedial investigation report and cleanup plan milestones on your revised schedule. However, it would be appropriate to present the full scope of the project, including both characterization and proposed remedies, in the public meeting.

In our call Wednesday we reiterated the need to prepare a risk assessment report to attain the site-specific standard for areas of the site that won't have pathway elimination remedies, such as the trail. Please add that report to your schedule. We accepted your proposal to submit a figure/evaluation outlining the impacted area that would be subject to the risk assessment. We will review and respond to that submittal.

We'll provide our comments on the draft PIP separately.

C. David Brown P.G. | Professional Geologist Manager
Environmental Cleanup & Brownfields Program
Department of Environmental Protection | Southeast Regional Office
2 East Main Street | Norristown, PA 19401
Phone: 484.250.5792 | Fax: 484.250.5961
www.dep.pa.gov

From: Anthony J. Reitano <areitano@heroldlaw.com>
Sent: Tuesday, November 19, 2024 5:30 PM
To: Costello, Andrea <acostello@pa.gov>; Patel, Ragesh <rapatel@pa.gov>; Brown, C David <cdbrown@pa.gov>; Sabetta, Matthew <msabetta@pa.gov>

Cc: Larry.Brunt@arcadis.com; ecarlson@alliancehp.com
Subject: [External] RE: Confirmed: DEP / Alliance 51st call

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Hi Everyone:

Attached is a revised schedule incorporating most of the PADEP comments. We would like to discuss tomorrow the timing of issuing the SCR/RIR/CP vs holding the public meeting. We think there is merit to providing the public a report that summarizing the work performed, soil and groundwater sample results for the Act 2 case and the cleanup plan for the property.

We would also like to discuss the PADEP and Alliance trail sample results and the PADEP request that Alliance prepare a HHRA.

Lastly, attached is the draft PIP for your review. The final version will be submitted to the City of Philadelphia.

Looking forward to our discussion.

Regards, Anthony

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-----Original Appointment-----
From: Costello, Andrea <acostello@pa.gov>
Sent: Wednesday, November 13, 2024 3:01 PM
To: Costello, Andrea; Patel, Ragesh; Brown, C David; Sabetta, Matthew; Anthony J. Reitano; Larry.Brunt@arcadis.com; ecarlson@alliancehp.com
Subject: Confirmed: DEP / Alliance 51st call
When: Wednesday, November 20, 2024 2:00 PM-2:30 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Microsoft Teams Meeting

Call to discuss Act 2 schedule

Microsoft Teams Need help?

Join the meeting now

Meeting ID: 245 245 950 624

Passcode: X9gJTn

Dial in by phone

+1 267-332-8737,,542832850# United States, Philadelphia

Find a local number

Phone conference ID: 542 832 850#

For organizers: Meeting options | Reset dial-in PIN

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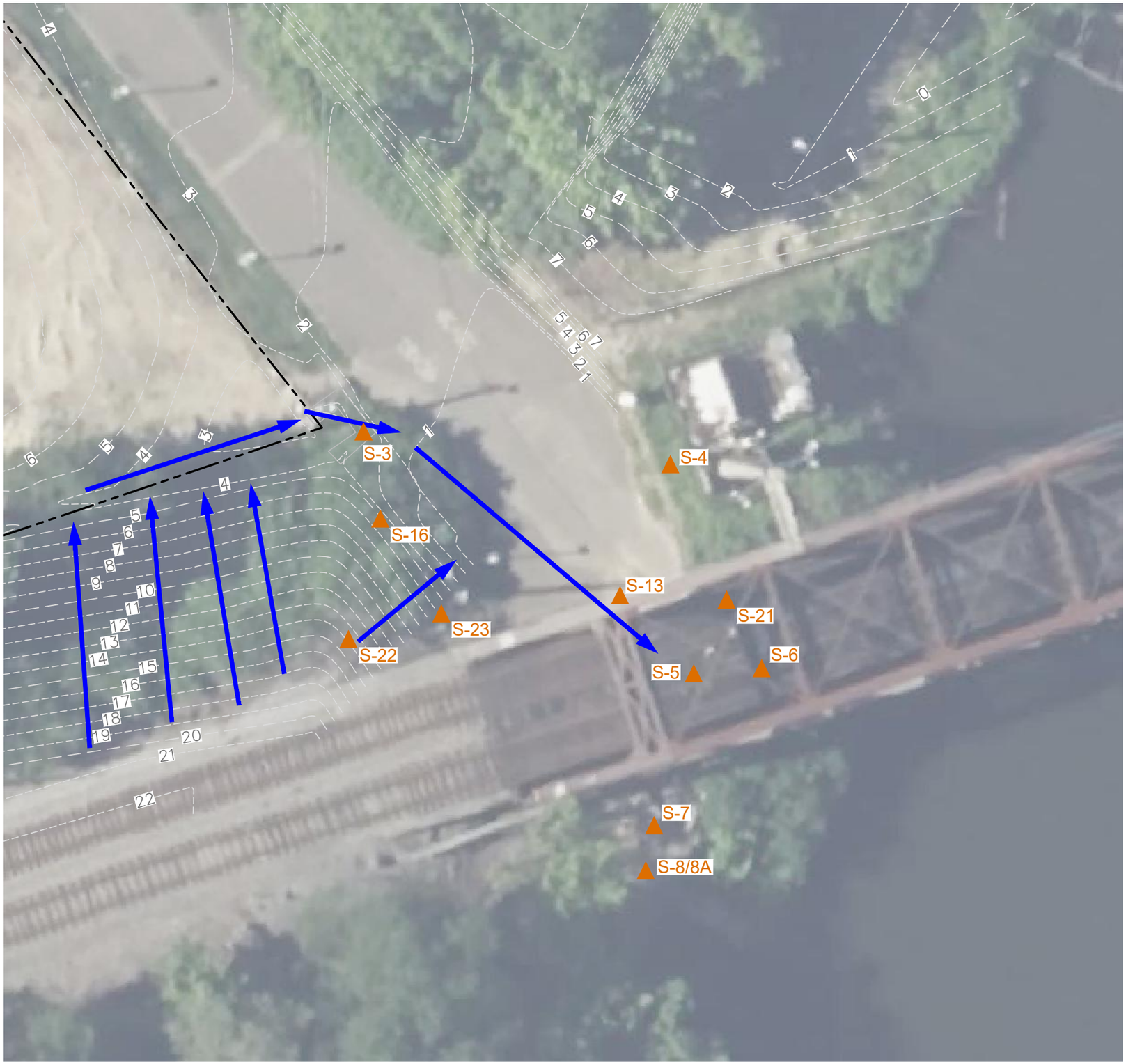

LEGEND:

SURFACE WATER SAMPLE

SOIL SAMPLE

PATH OF SURFACE WATER RUNOFF

NOTES:

1. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.

SOURCE:

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0 20' 40'

GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

SAMPLE LOCATIONS

ARCADIS

FIGURE 1

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\GEN-F01-SAMPLE LOCATIONS.dwg LAYOUT: 1 SAVED: 1/7/2025 1:21 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 1/7/2025 1:22 PM BY: DAVIS, KATHI
XREFS:
GEN-X-SURVEY 2022-04
X-SURV
REP-X-RBL
IMAGES:
Arcadis Logo.PNG

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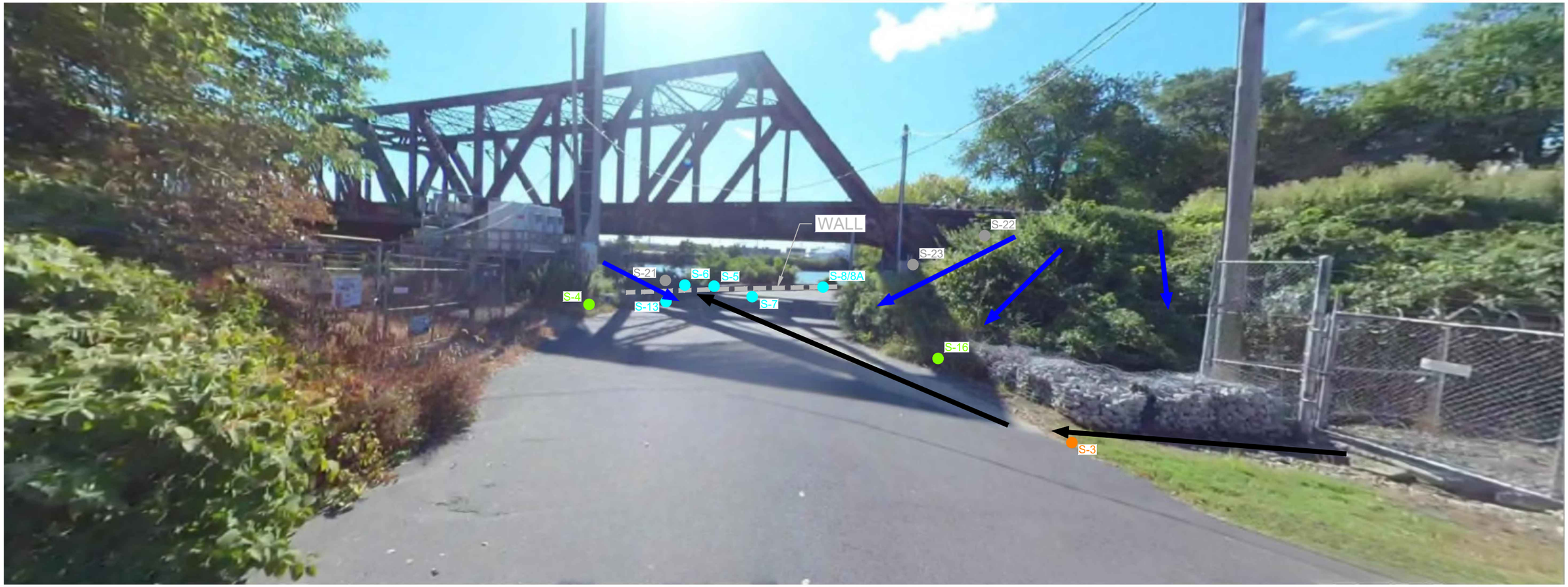
PLOTSTYLETABLE: ---- PLOTTED: 1/7/2025 1:30 PM BY: DAVIS, KATHI
XREFS:
REP-X-RBL
X-SURV
IMAGES:
VERTICAL EXTENT.jpg
Arcadis Logo.PNG



CURRENT CONDITIONS BASED ON PADEP / ALLIANCE SAMPLING DATA POST CLEANUP EFFORTS

LEGEND:

- IMPACTED FROM KNOWN AND UNKNOWN SOURCES
- HEX CR DETECTED IN DRAINAGE SWALE LIKELY FROM SURFACE WATER RUNOFF FROM RAILROAD EMBANKMENT
- NO HEX CHROMIUM DETECTED IN SAMPLES
- NOT IMPACTED FROM ALLIANCE SITE
- AREA OF LIKELY SURFACE WATER FLOW OFF SITE
- SURFACE WATER RUNOFF PATH

NOTES:

1. SAMPLES S-3, S-5, D-6, S-8/8A, S-7, AND S-13 WERE ALL AT LOCATIONS WHERE SEDIMENT WAS REMOVED.
2. SAMPLES S-5, S-6, AND S-8/8A WERE SAMPLED ON GROUND BEHIND "WALL" AT THE SAME ELEVATION AS THE ASPHALT ON RIGHT SIDE OF WALL.
3. S-21 SAMPLED ON SOIL PILE THAT IS BEHIND THE "WALL." SOIL THERE IS RAISED ABOVE THE WALL SO SAMPLE IS HIGHER IN ELEVATION THAT S-5 AND S-6.
4. S-22 AND S-23 WERE TAKEN ON SLOPE COMING DOWN FROM RAIL TRACKS.

NOT TO SCALE

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ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

CHROMIUM WATER INVESTIGATION TRAIL VERTICAL FIGURE

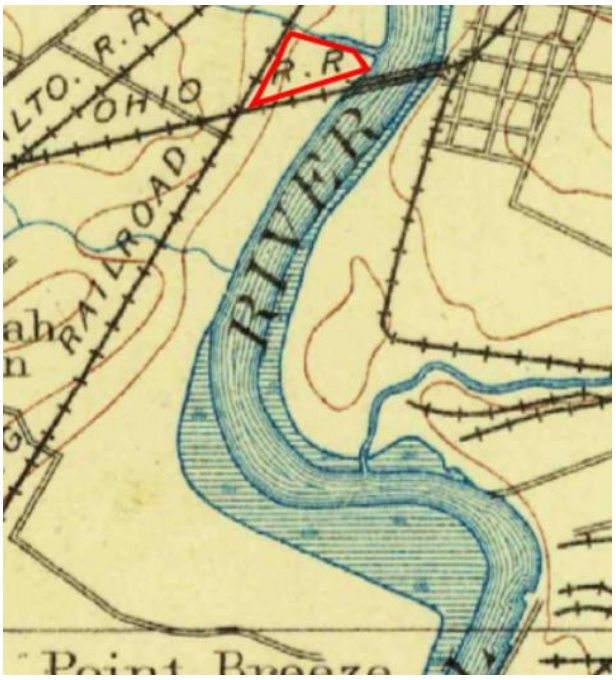
ARCADIS

FIGURE
X

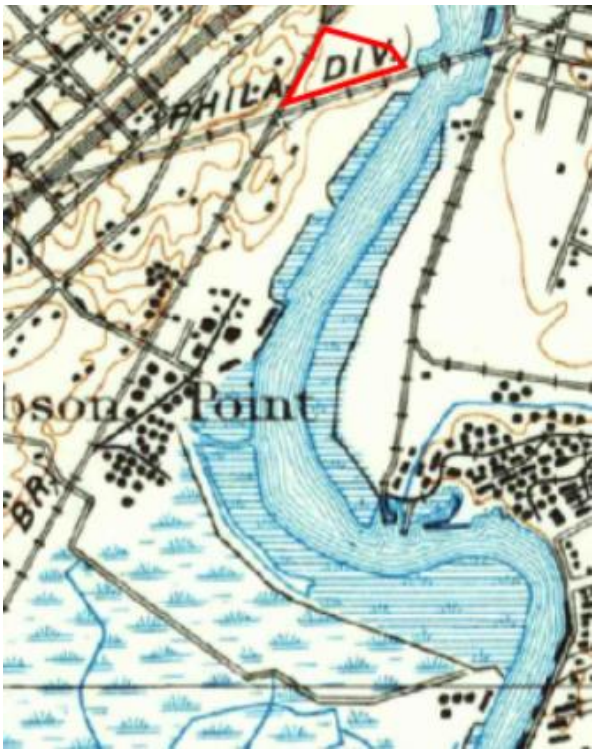
USGS Topographic Map Review

The historic USGS maps for the site were reviewed to evaluate the historic filling of the area. Because of the contour interval on the USGS maps, the maps do not show specific filling on the site. However, the presence of the rail line as early as 1891 (see snip it below), which we know is elevated above the surrounding land, indicates that filling occurred in this area along the rail line prior to its construction. Also, in comparing USGS maps from 1894 to 1949 (see snip its below), you can see that wetlands areas to the south of the site have been filled and roadways were installed, indicating that the areas along the river were filled. In addition, historic aerial photos indicate that filling of the site occurred prior to the installation of Tanks #7550 and 7551. Attached is a circa 1920s aerial showing the sand and gravel operation and low lying area along the river on what is now Bartram's Garden. At least parts of Bartram's Garden if not all were filled after the sand and gravel operations ceased. The aerial also shows the southwest area of the site which is low lying and receiving runoff from the foundry to the west. This information together with the presence of the yellow/white fill layer identified in the soil along the southern property boundary of the site indicates that the area was filled in the past.

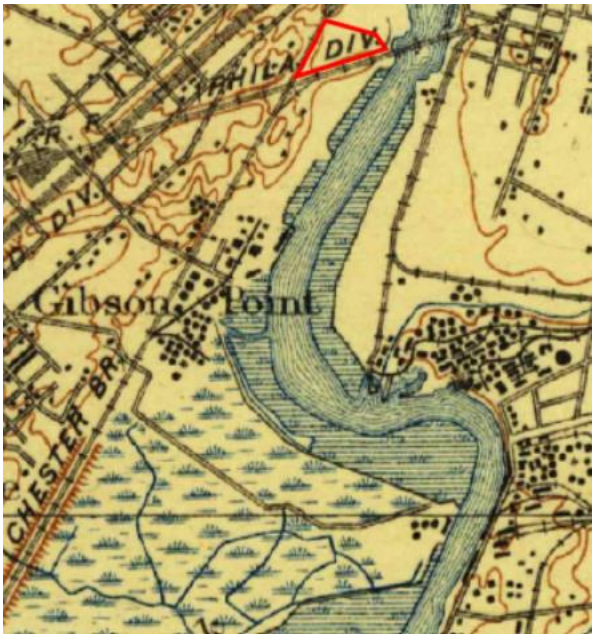
1891



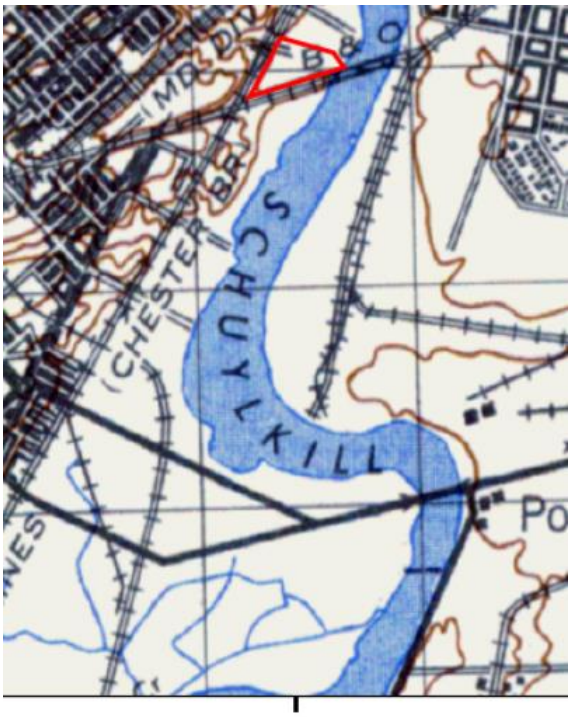
1894



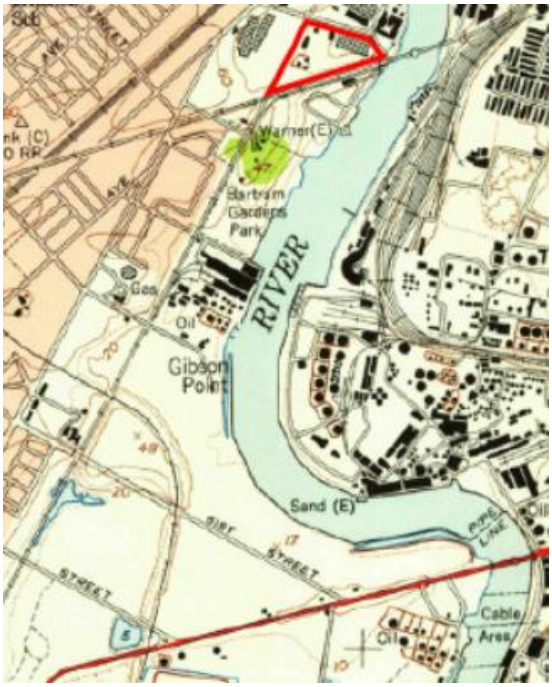
1920



1943


SCHUYLKILL
CHESTER

1949


Warner(E)
Bartram Gardens Park
RIVER
Gibson Point
Sand (E)
Cable Area

Appendix B

Public Involvement Plan

Alliance 51st Street LLC

Public Involvement Plan

Alliance 51st Street Terminal

1646 South 51st Street
Philadelphia, Pennsylvania 19143

December 4, 2024

Revised January 21, 2025

Revised February 13, 2025

Public Involvement Plan

Alliance 51st Street Terminal

1646 South 51st Street
Philadelphia, Pennsylvania 19143

February 2025

Prepared By:
Arcadis U.S., Inc.
2100 Georgetown Drive, Suite 402
Sewickley
Pennsylvania 15143
Phone: 724 742 9180
Our Ref:
30108678

Crystal Foster
Senior Geologist

Lawrence Brunt, P.E.
Project Manager

Prepared For:
Alliance 51st Street LLC

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1.2 Purpose 4

2 Public Involvement Activities 4

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Figure 1 Site Location Map

Figure 2 Site Plan

Attachments

Attachment A Schedule

Acronyms and Abbreviations

Act 2	Land Recycling Program
Arcadis	Arcadis U.S., Inc.
AST	aboveground storage tank
MSC	medium-specific concentration
NIR	Notice of Intent to Remediate
PADEP	Pennsylvania Department of Environmental Protection
PIP	Public Involvement Plan
SHS	statewide health standards
site	1646 South 51st Street, Philadelphia, Pennsylvania
SSS	site-specific standards

1 Introduction

On behalf of Alliance 51st Street LLC (Alliance), Arcadis U.S., Inc. (Arcadis) prepared this Public Involvement Plan (PIP) to present a framework for informing and involving the public and other parties that may be interested in remediation plans for the property located at 1646 South 51st Street in Philadelphia, Pennsylvania 19143 (site; Figure 1). This PIP was prepared in accordance with the Pennsylvania Department of Environmental Protection (PADEP) requirements of Title 25, Chapter 250, 25 Pennsylvania Code §§ 250.5 and 250.6, known as Act 2. This PIP will be followed for each Act 2 report submitted to PADEP for the Site. The anticipated schedule of activities is presented in Attachment A.

1.1 Site Location and History

The Site is in Philadelphia County, in the City of Philadelphia. Alliance 51st Street LLC acquired the Site from PBF Logistics Terminals LLC (PBF Logistics) in December 2021. PBF Logistics purchased the Site in 2016 from Plains Products Terminals LLC. Allied Oil Co. Hess Oil & Chemical Corporation operated the Site prior to Plains Products Terminals LLC. The main Site primarily operated as a petroleum product terminal (from approximately 1951 to 2021); historically, the Site also was used for lumber storage (in 1923 prior to development), and as a cardboard container manufacturer (from approximately 1923 to 1945).

According to historical resources, fifteen aboveground storage tanks (ASTs) were constructed at the Site between 1951 and 1975 as part of the operations for Allied Oil Co. (Allied) and later Hess Oil & Chemical Corporation Fuel Oil Terminal (Hess). Locations of the former ASTs are shown on Figure 2. The ASTs, loading racks, and associated piping were removed as part of the AST closure activities and the tank foundations, concrete and soil containment berms, and miscellaneous buildings have been removed as part of the redevelopment activities.

The northwestern portion of the Site previously contained three buildings and a canopy area, which have been demolished. The areas around the buildings are paved with asphalt. The remainder of the Site is mostly covered with gravel, although some areas in the vicinity of former buildings are paved.

A large soil pile (estimated at ~25,000 cubic yards and 20 feet high) was located on the eastern portion of the Site. While the origin of the soil could not be confirmed, the presence of the stockpile appears to coincide with the installation of the ASTs on the Site. The soil was likely excavated from the southwestern portion of the Site during the construction of the ASTs. During the recent redevelopment activities, some of the soil has been spread across the property as part of the grading of site.

Organic compounds and lead are present in site media, primarily associated with the former use of the property as a fuel oil terminal. Soil borings in the former AST and piping area identified exceedances of Pennsylvania Department of Environmental Protection (PADEP) soil Medium Specific Concentrations (MSCs) for volatile organic compounds, semivolatile organic componds, and lead. Groundwater samples from permanent monitoring wells have exceedances of groundwater MSCs for benzene and lead associated with the former terminal operations. Hexavalent chromium also is present in soil and groundwater due to the historic placement of fill onsite in the early 1900s.

The site has recently undergone environmental investigations. An Act 2 Notice of Intent to Remediate (NIR) was submitted to the PADEP in February 2022 and proposed attainment of PADEP statewide health standards (SHS). In April 2024, the Philadelphia Water Deparment observed yellow-colored water leaving the Site, near the Bartram's Garden Mile Trail. Upon further investigation it was determined that the water contained chromium and hexavalent chromium. From a review of historical materials, the presence of chromium onsite is due to the historical placement of fill across the Site in the early 1900s. However, as determined by sampling by Allaince and

PADEP, chromium and hexavalent chromium are also present offsite at locations not impacted by the Site. Alliance has taken measures to eliminate any chromium originating from the Site.

A revised NIR was submitted in July 2024 proposing attainment of a combination of SHS and site-specific standards (SSS); which will be demonstrated following further investigation. The future intended use of the site is non-residential. Deed restrictions will be put into place that will memorialize site use restrictions.

1.2 Purpose

The goal of this PIP is to facilitate communication and interaction among Alliance, Arcadis, the local community, PADEP, and other interested parties and organizations regarding the status of the remedial investigation and site closure activities. To accomplish this goal, Arcadis has organized several public involvement opportunities, including:

- Public meetings, as needed, near the site
- Maintenance of a site mailing list
- Establishment of an online information repository for public access of documents
- Designation of a contact person for community questions

These activities are described further in Section 3.

2 Public Involvement Activities

This section discusses the public involvement opportunities established to inform the public about remedial investigation and closure activities at the site. Act 2 reports will be submitted to the interested parties at the same time as submitted the PADEP, to allow for the 30-day public comment period. Following the public comment period, a response to comments, if any, and an amended report, as necessary, will be submitted to the PADEP no later than 45 days after the close of the public comment period.

2.1 Public Meeting

A public meeting will be held promptly after the 30-day public period for the first Act 2 report (the Remedial Investigation Report and Cleanup Plan) is submitted to the PADEP. Following the public meeting, a response to comments and an amended report, as necessary, will be submitted to the PADEP no later than 45 days after the date of the public meeting.

The objective of a public meeting or hearing will be to discuss activities planned or proposed for the Site, and to gather feedback from the community, local leaders, and other interested parties. A public meeting will be organized by Alliance and/or Arcadis in response to the request by the City of Philadelphia.

The public meeting will be scheduled for a weeknight evening to maximize the potential for interested parties to attend. The meeting will be designed to be informal and interactive so that attendees can hear key findings from project reports and discuss issues during a question-and-answer period. Most of the meeting time will be devoted to discussion of project status and issues, which will help interested parties remain informed and involved in project activities, and track progress toward the achievement of overall project goals. Based on the request from the City of Philadelphia, the following topics will be discussed in the meeting:

- Location and concentration of contaminants identified at the Site;
- Potential health effects of the contaminants based on the concentrations;
- Measures that will be implemented to protect the community;
- Remedial measures that will be implemented to address the contaminants; and
- Procedures to be implemented during redevelopment to minimize dust and control erosion.

Public notice of the meeting will be given at least 30 days prior to the meeting by placing a notice in the local newspaper (the Philadelphia Inquirer). Notice of the public meeting will also be made directly to local civic associations (e.g., the township historical commission) and state and municipal representatives, in addition to the newspaper advertisement. Act 2 documents will be made available to the public at least 30 days prior to the meeting, and the newspaper advertisement will provide details on the location of the information repository.

To facilitate the notification process, an attendance sign-in log will be made available during public meeting to gather names and contact information for those who wish to be added to the site mailing list for use in future notifications.

Multiple locations were evaluated for the public meeting considering users of the trail, accessibility, logistics, and accommodations. In consideration of these factors, Arcadis will use one of the following locations for public meetings and documents, based upon availability:

- Bartram's Garden
    - Address: 5400 Lindbergh Blvd, Philadelphia, PA 19143
    - Located: Less than 0.5 miles from Site
    - Phone: 215.729.5281
    - Website: https://www.bartramsgarden.org.
    - Groups of 50 or less may use the outdoor pavilion on a first come, first serve basis. The indoor room with more capacity requires up to three months' notice.
    - This is the same location that is proposed for the hard copy Information Repository, if available, described in Section 2.3.
- Walnut Street West Library:
    - Address: 201 South 40th Street, Philadelphia, PA 19104
    - Located 1.6 miles from the Site
    - Phone: 215.685.7671
    - Website: https://libwww.freelibrary.org/locations/walnut-street-west-library
    - The library meeting room has a 100-person capacity. This is the backup location proposed for the hard copy Information Repository, described in Section 2.3.

Public notice of the meeting will provide details of the meeting location. An online meeting platform will also be utilized to retain documents, and to stream the meetings, if possible.

Comments provided by the public in writing and orally at the public meeting will be summarized and a responsiveness document will be prepared responding to each comment or groups of similar comments, and published in the Information Repository.

2.2 Site Mailing List

To facilitate communication, public involvement, and dissemination of information, Arcadis will maintain a site mailing list to distribute notices and other site-related information, as appropriate. The mailing list will include, but

is not limited to, the following: owner(s) of the site; local officials; state officials; individuals who attend public meetings; people who make inquiries to Arcadis, Alliance, or the PADEP; community groups; and the information repository and newspaper. Interested individuals can be added to or removed from the mailing list by providing contact information on sign-in sheets at public meetings or by contacting the Arcadis project manager listed below. To protect the privacy of individuals, information provided to Arcadis for the site mailing list will not be used for any other purpose.

The current Site mailing list is provided in Table 1, below. Mailing list recipients will be notified of upcoming public meetings and report submissions.

Table 1 Site Mailing List

Name	Company/Position	Address	Contact Information
Frank A. Franklin	Office of the Health Commissioner – Interim Health Commissioner – Property Owner	1101 Market St. 13th Floor Philadelphia, PA 19107	Email (assistant): maya.lindsay@phila.gov Phone: 215.686.5200
Eric Carlson	Alliance 51st Street, LLC – Vice President of Development & Construction	40 Morris Ave, Ste 230, Bryn Mawr, PA 19010	Email: ecarlson@allianceshp.com
Anthony Reitano, Esq.	Herold Law, P.A. – Attorney	25 Independence Blvd., Warren, New Jersy, 07059	Email: areitano@heroldlaw.com Phone: 908.647.1022
Dawn Kiesewetter	Environmental Health Services – Acting Director	NA	Email: Dawn.Kiesewetter@Phila.gov
India McGhee	Regulatory Law Unit – Deputy City Solicitor		Email: India.McGhee@Phila.gov
Leigh Anne Rainford	Office of the Health Commissioner – Environmental Engineering Primary Contact for City Correspondences	1101 Market Street, 13th Floor Philadelphia, Pennsylvania 19107	Email: LeighAnne.Rainford@Phila.gov Phone: 215.685.7497
Anthony Hardy Williams	Pennsylvania State Senators Office– Senator (8th District)	NA	Email: anthony.williams@pasenate.com
Regina Young	Pennsylvania State Representatives Office – Representative (185th District)	NA	Email: ryoung@pahouse.net
Joanna McClinton	Pennsylvania State Representatives Office – Speaker (191st District)	NA	Email: JMcClinton@pahouse.net
Jamie Gauthier	Philadelphia City Council – Councilmember (3rd District)	NA	Email: Jamie.Gauthier@phila.gov
Roque Schipilliti	City of Philadelphia – Director of Safety and Loss Prevention	NA	Email: Roque.Schipilliti@phila.gov
Aurora Trainor	City of Philadelphia – Environmental Justice Coordinator	NA	Email: Aurora.Trainor@phila.gov

Name	Company/Position	Address	Contact Information
Maitreyi Roy	Bartram's Garden	NA	Email: mroy@bartramsgarden.org
Leeannah McNew	Clean Air Council	NA	Email: lmcnew@cleanair.org
Melba Bingham	Rise Up	NA	Email: mbingham3@riseup.net
Ed Rodgers	Delaware Riverkeeper Network	925 Canal Street 7th Floor Suite 3701 Bristol, PA 19007	Email: Ed@delawareriverkeeper.org
Andrew Gentsch	51st Republican Ward	NA	Email: agent3@earthlink.net Phone: 215.729.1090
Michael Ross	Southwest Philadelphia District Services (SWPDS)	NA	Email: swpds@aol.com Phone: 484.250.9055
Gregory R. Benjamin	51st Ward Democratic Executive Committee	NA	Email: greben5030@comcast.net Phone: 267.254.9972
NA	City & County of Philadelphia - Municipal Manager	1401 John F. Kennedy Blvd Philadelphia, PA 19107	NA
NA	Office of Sustainability	One Parkway Building 1515 Arch St., 13th Floor Philadelphia, PA 19102	Email: sustainability@phila.gov Phone: 215.686.3495
NA	Air Pollution Control Board	7801 Essington Avenue Philadelphia, PA 19153	Email: dphams_service_requests@phila.gov Phone: 215.685.7584 Fax: 215.685.7593
NA	Office of the Mayor	City Hall, Office 215 Philadelphia, PA 19107	Phone: 215.686.2181
NA	Mayor's Office of Public Engagement	City Hall Room 115 Philadelphia, PA 19107	Email: public.engagement@phila.gov Phone: 215.686.2181

Note:
NA = Not available.

2.3 Information Repository

Notifications of reports that are going to be submitted to the PADEP will be posted in the Philadelphia Inquirer for one day. Upon these notifications, a public comment period of 30 days will be provided for review of reports. The notification will contain the deadline for receipt of comments and the name and address to submit comments. The public comment period will be conducted prior to submittal of each report to PADEP. Copies of the comments received will be provided in the report along with how each comment was addressed. Information on the availability of each report for review and comment will be distributed to the mailing list. Reasonable proof of publication of the notice of public comment period will be provided in the report. A summary of the report will be provided in plain language to facilitate public review.

To provide a central, publicly accessible location for individuals to access site-related documents, a local document repository for hard copies of reports will be established at Bartram's Garden or at the Walnut Street West Library, as discussed in Section 2.1. Additionally, all documents located in the information repository will be electronically shared, via email, to LeighAnne.Rainford@phila.gov. An online document repository will also be created. The document repository will include summaries of key documents translated into common languages. The location of the repository will be indicated in the public notices.

Contacts

To keep the public and others who may be interested in the implementation activities at the site informed and involved, Arcadis developed this PIP and will be responsible for implementing the various activities of the public involvement program. Mr. Lawrence Brunt serves as Arcadis' contact person for questions from the community. Lawrence's contact information is provided below:

Lawrence Brunt
Arcadis U.S., Inc
1 Harvard Way, Suite 5
Hillsboro Township, NJ 08844
Phone: 908.319.4671
Email: larry.brunt@arcadis.com

The PADEP Southeast Regional Office is the agency of authority and provides project oversight to confirm compliance with applicable regulations. Contact information for the PADEP office is as follows:

PADEP Environmental Cleanup & Brownfields Program
2 East Main Street
Norristown, Pennsylvania 19401
Project Officer: Matthew Sabetta
Phone: 484.250.5900
Email: RA-EP-SEROECB@pa.gov

Figures

SOURCE: USGS TOPOGRAPHIC MAP
QUAD: PHILADELPHIA PA, NJ
DATE: 2019

0 2000' 4000'
GRAPHIC SCALE

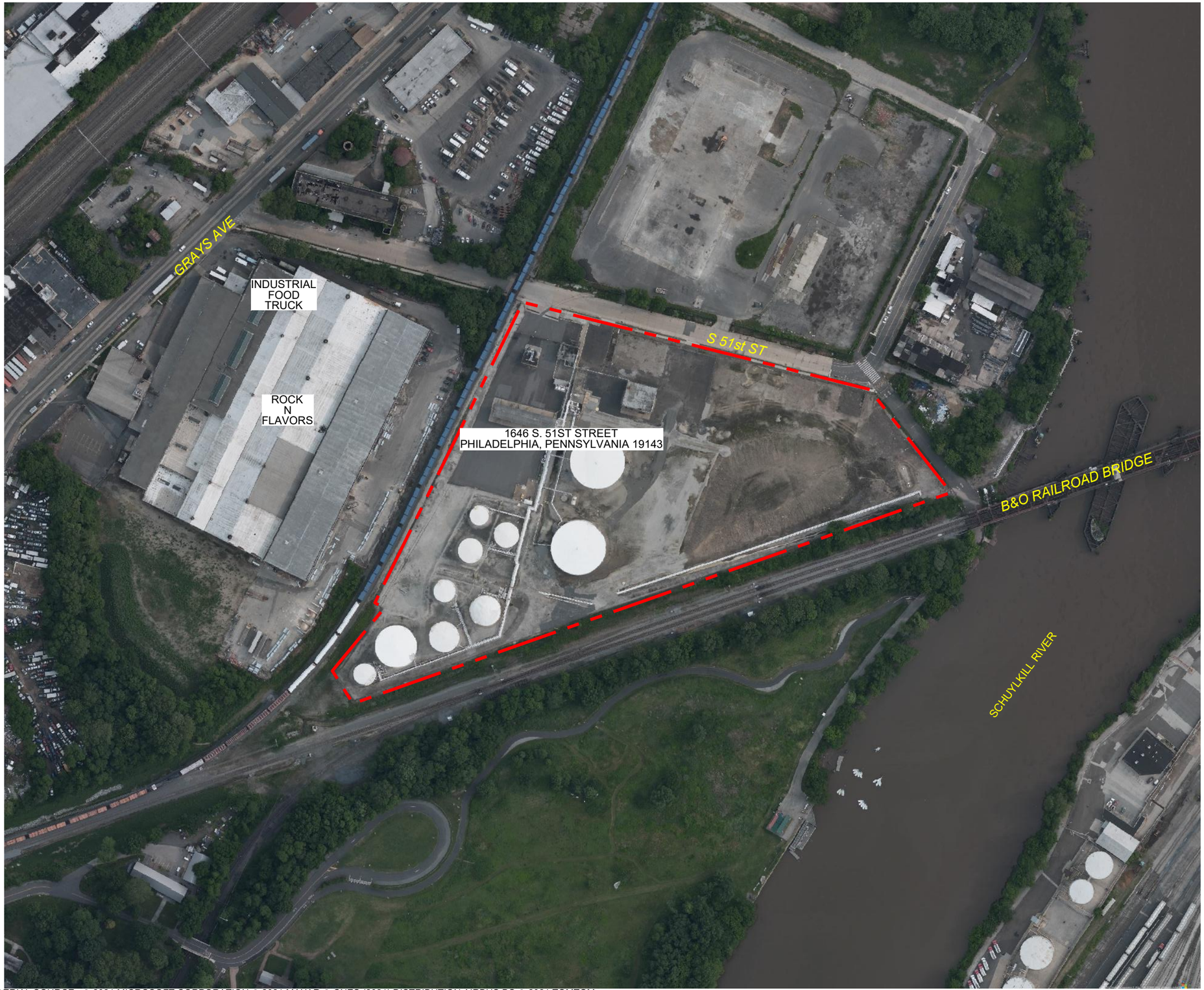
ALLIANCE HSP VENTURES
1646 S 51 ST STREET
PHILADELPHIA, PENNSYLVANIA

SITE LOCATION MAP

ARCADIS

FIGURE
1

C:\BIM\OneDrive - ARCADIS\BIM360 - OneDrive Sync Location\AUS-ALLIANCE HSP VENTURES-1646 S 51 ST STREET-PHILADELPHIA Pennsylvania\2021\01-In Progress\01-DWG\GEN-2021-F01-SITE LOCATION.dwg LAYOUT: 1 SAVED: 9/1/2021 8:22 AM ACADVER: 24.0S (LMS TECH) PAGESETUP: ---
PLOTTED: 11/10/2021 1:46 PM BY: HALLIWELL, TRISH



AERIAL SOURCE: © 2021 MICROSOFT CORPORATION © 2021 MAXAR © CNES (2021) DISTRIBUTION AIRBUS DS © 2021 TOMTOM

LEGEND:

PROPERTY BOUNDARY

Aboveground storage tanks have been removed.

0 200' 400'

GRAPHIC SCALE

ALLIANCE HP INVESTMENTS, LLC
1646 S. 51ST STREET
PHILADELPHIA, PENNSYLVANIA

SITE PLAN

ARCADIS

FIGURE
2

CITY: CITY DIV/GROUP:ENVCAD DB:ENVCAD
C:\Users\barobita\OneDrive - ARCADIS\BIM 360 Docs\AUS-ALLIANCE HSP VENTURES- 1646 S 51ST-PHILADELPHIA PENNSYLVANIA\202101-IN PROGRESS\01-DWG\GEN F01-F02 LOC AND SITE.dwg LAYOUT: 2 SAVED: 11/2/2021 10:52 AM PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 11/2/2021 10:52 AM BY: ROBITAILLE, BEVERLY

Attachment A

51st Street Act 2 Schedule

- Quarterly Groundwater Monitoring (2 Quarterly Events for Site Characterization and 4 Events for Attainment)
    - 1st Quarterly Groundwater Event for Chromium completed
    - 2nd Quarterly Groundwater Event for Chromium completed
    - Week of February 24, 2025 – 3rd Quarterly Groundwater Event for Chromium
    - Week of May 26, 2025 – 4th Quarterly Groundwater Event for Chromium
- Soil Investigation
    - December 2024 – Perform Additional Soil Sampling
- Public Involvement Plan
    - December 4th – Submit PIP to PADEP and the City of Philadelphia
    - Public meeting pursuant to the PIP promptly after close of the public comment period for the RIR
- Site Characterization Report/Remedial Investigation Report/Cleanup Plan
    - December 2024 – January 2025 - Prepare Report
    - January 2025 – Perform Groundwater Modeling
    - February 14, 2025 –Submit to PADEP
    - February 14, 2025 - Publish thirty-day public notice and comment period in local newspaper
    - Within 45 days after public meeting - submit response to comments to PADEP and report addendum, as necessary
- Remedial Investigation Report/Cleanup Plan Addendum
    - Summarize the results from the two additional groundwater monitoring events performed in February and May 2025
    - June 2025 – Prepare Addendum
    - July 15, 2025 – Submit to PADEP
    - July 15, 2025 – Publish thirty-day public notice and comment period in local newspaper
    - Within 45 days of close of public comment period - submit response to comments, if any, and report addendum, if necessary.
- Site Redevelopment
    - October/November 2024 -Perform geophysical site testing for building construction
    - Start of building construction – to be determined based upon market/financial conditions.
- Final Report Preparation and Submission - Within sixty days of completion of Site Development with public notice and response to comments and revised report as appropriate
- Establish Environmental Covenants - Within thirty days after PADEP approval issued for Final Report

Arcadis U.S., Inc.
2100 Georgetown Drive, Suite 402
Sewickley
Pennsylvania 15143
Phone: 724 742 9180
www.arcadis.com

Appendix C

Historical Aerial Photographs

Site Location Aerial
1927
Legend
Approximate Site Boundary

Site Location Aerial

1929

Legend

Approximate Site Boundary

Site Location Aerial

1929

Legend

Approximate Site Boundary

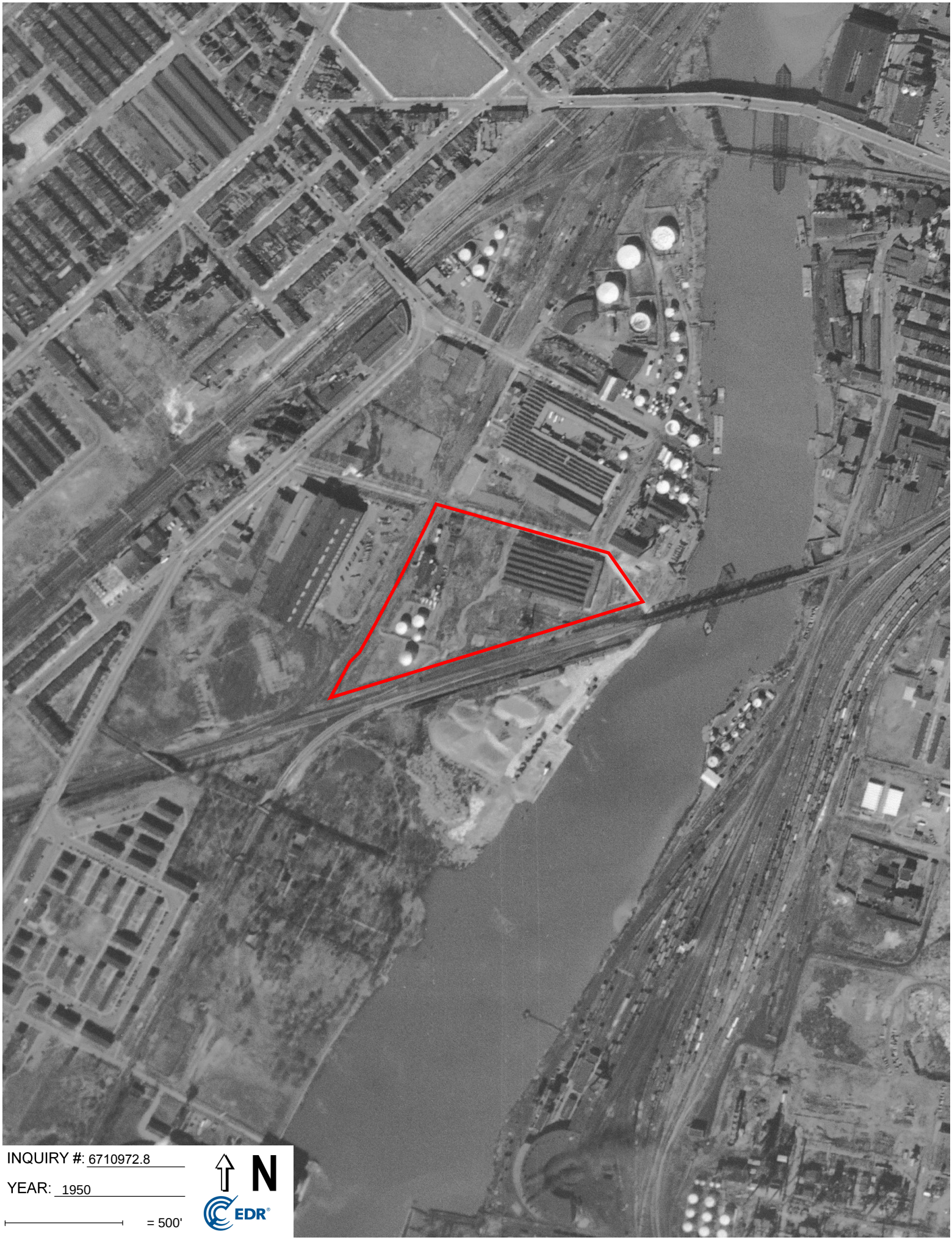
INQUIRY #: 6710972.8

YEAR: 1945

= 500'

N

EDR


INQUIRY #: 6710972.8
YEAR: 1950
= 500'
N
EDR

INQUIRY #: 6710972.8

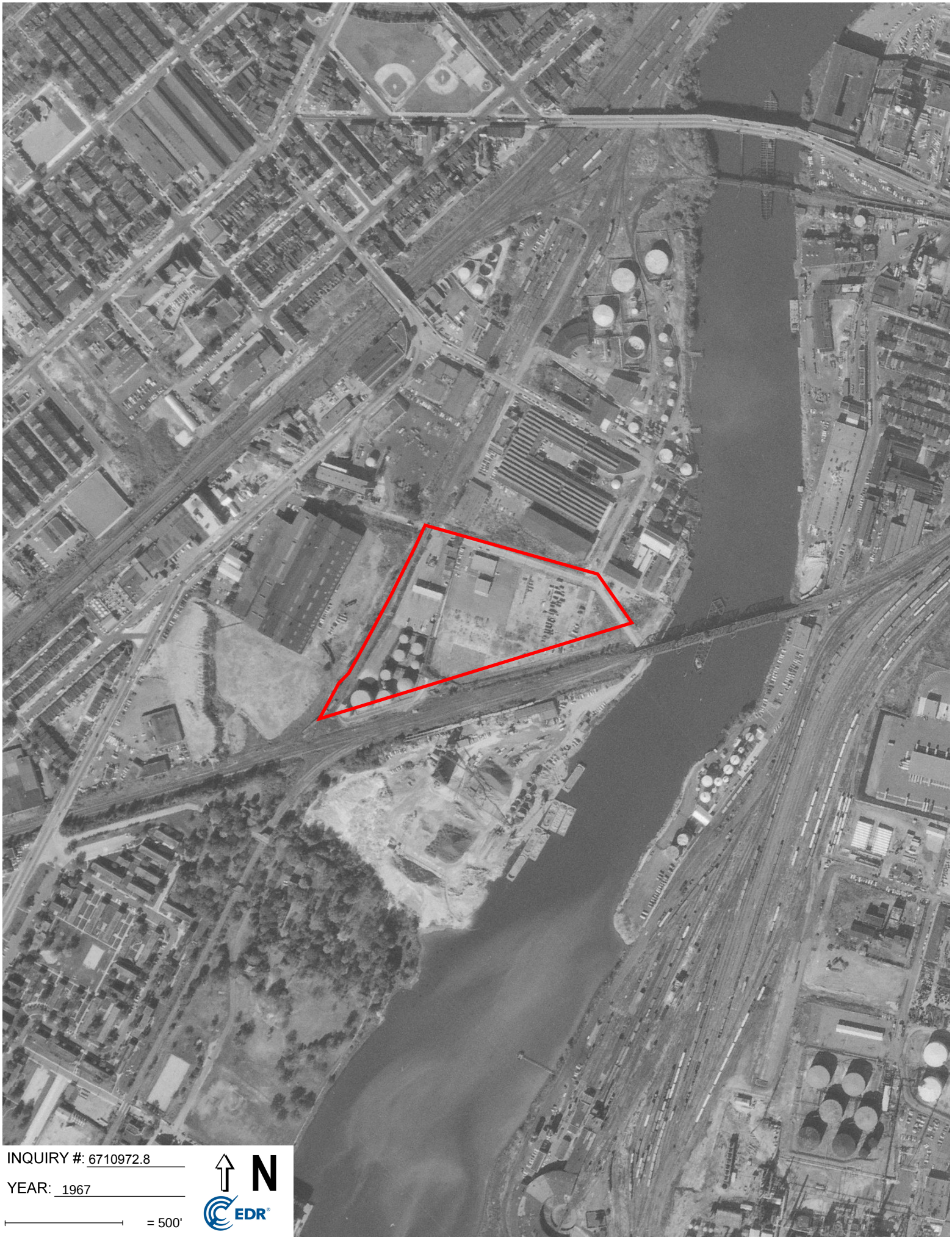
YEAR: 1958

= 500'

N

EDR

INQUIRY #: 6710972.8
YEAR: 1965
= 500'
N
EDR



INQUIRY #: 6710972.8

YEAR: 1967

= 500'

N

EDR

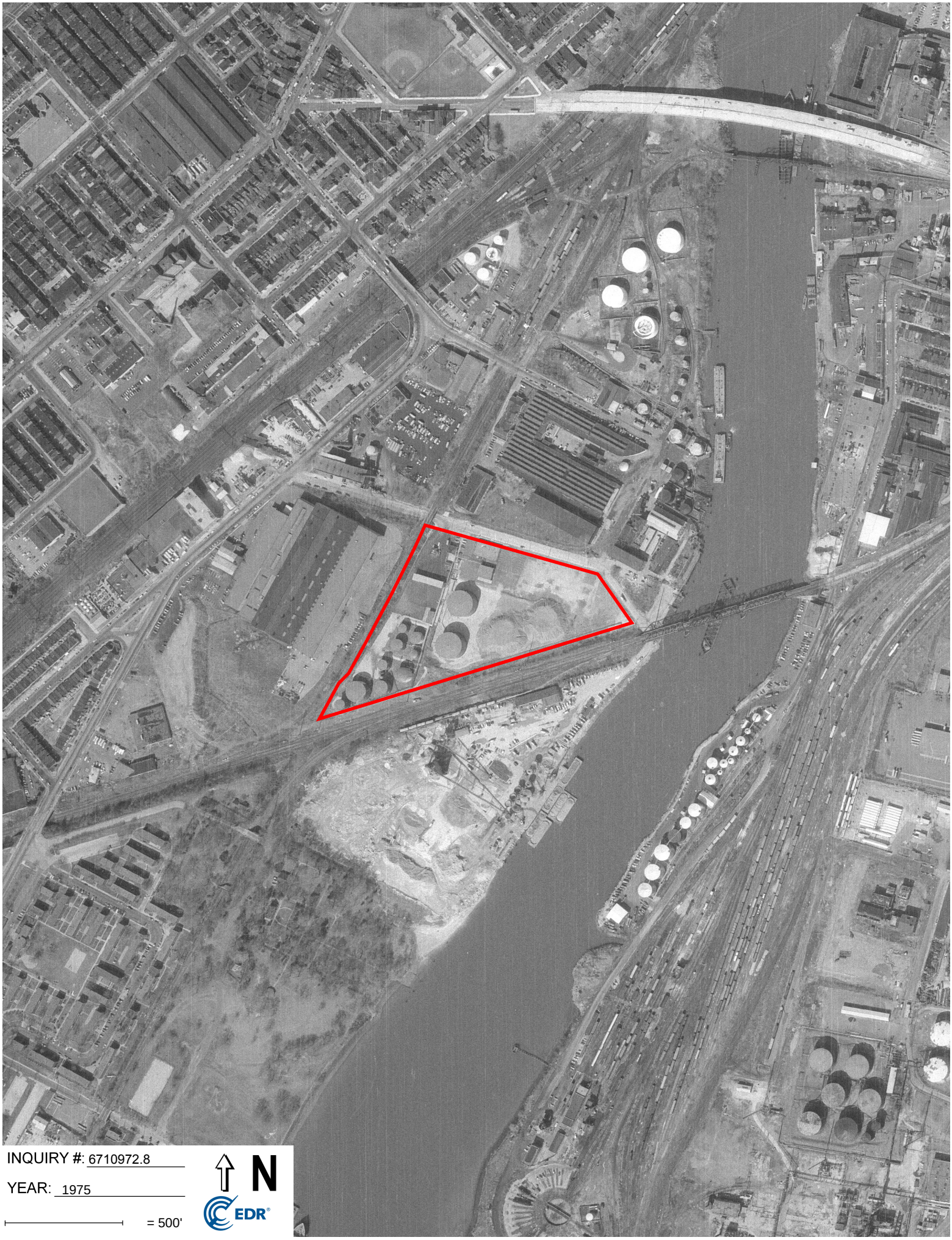
INQUIRY #: 6710972.8

YEAR: 1971

= 500'

N

EDR



INQUIRY #: 6710972.8

YEAR: 1975

= 500'

N

EDR

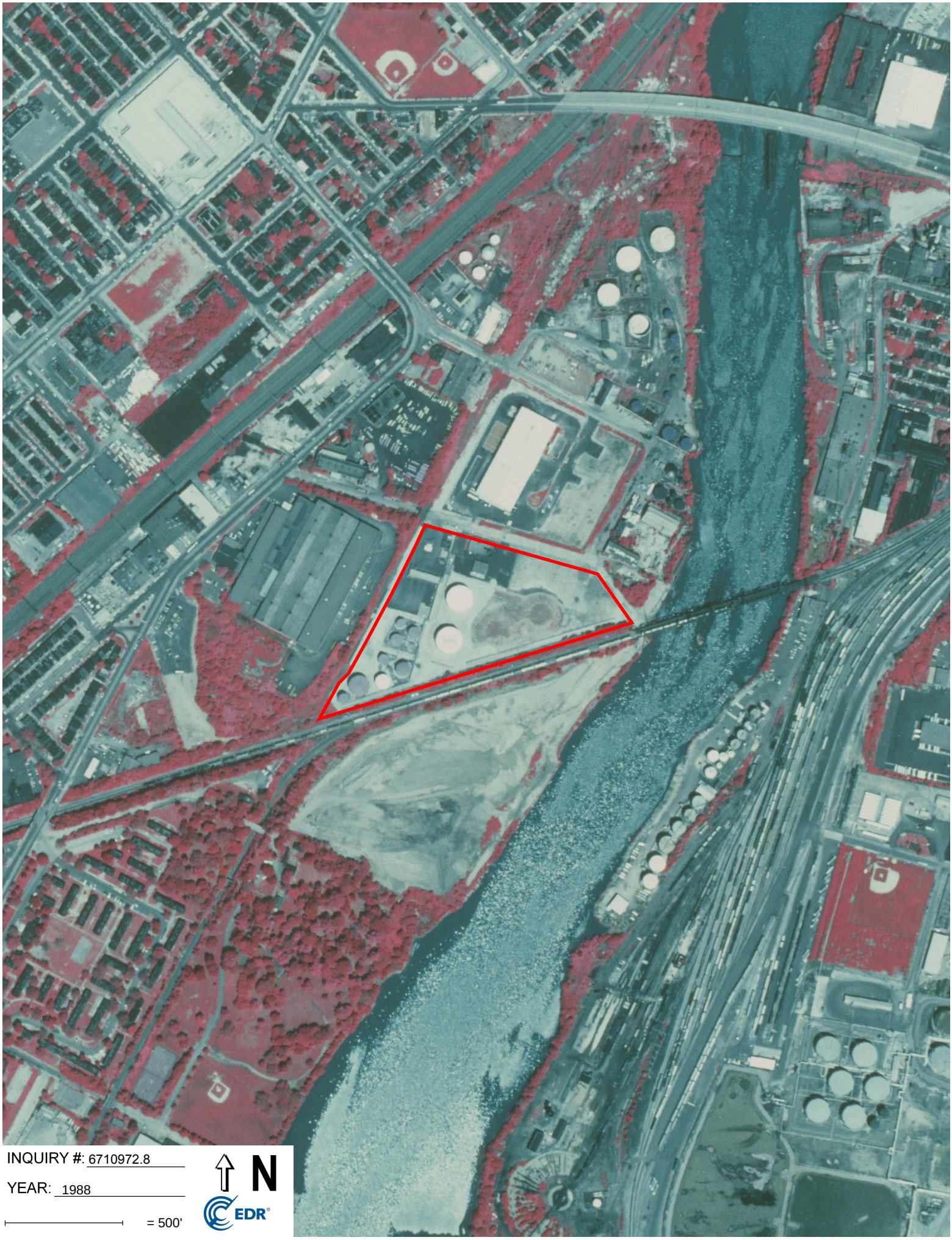
INQUIRY #: 6710972.8

YEAR: 1981

= 500'

N

EDR



INQUIRY #: 6710972.8

YEAR: 1988

= 500'

N

EDR

Site Location Aerial

March 1992

Legend

Approximate Site Boundary

Site Location Aerial
March 1995
Legend
Approximate Site Boundary
Google Earth
Image U.S. Geological Survey
N
1000 ft

Site Location Aerial

February 1997

Legend

Approximate Site Boundary

Site Location Aerial

February 1999

Legend

Approximate Site Boundary

Site Location Aerial

December 2002

Legend

Approximate Site Boundary

Site Location Aerial

March 2004

Legend

Approximate Site Boundary

INQUIRY #: 6710972.8

YEAR: 2006

= 500'

N

EDR

Site Location Aerial

June 2007

Legend

Approximate Site Boundary

Site Location Aerial

April 2010

Legend

Approximate Site Boundary

INQUIRY #: 6710972.8
YEAR: 2013
= 500'
N
EDR

Site Location Aerial

May 2015

Legend

Approximate Site Boundary

Site Location Aerial

July 2017

Legend

Approximate Site Boundary

Site Location Aerial

April 2020

Legend

Approximate Site Boundary

Site Location Aerial

July 2022

Legend

Approximate Site Boundary

Site Location Aerial

September 2024

Legend

Approximate Site Boundary

Appendix D

Soil Boring and Well Construction Logs, Test Pit Logs, and Lithologic Cross Sections

Soil Boring Logs

October 2021

SOIL CORE / SAMPLING LOG

Boring/Well 1044-P4 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/22/2021 Drilling Completed 10/22/2021

Drilling Contractor Hawk Drilling Driller Andy Helper Jesse

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
6.5-7	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	2.00	2.1	0-0.5	0-5' Black-grey sands with gravels, poorly sorted, dry
			4.7	0.5-1	
			5.1	1-1.5	
			2.7	1.5-2	
			3.1	2-2.5	
			4.1	2.5-3	
			3.6	3-3.5	
			4.7	3.5-4	
			1.9	4-4.5	
			4.7	4.5-5	
5	10	5.00	1.7	5-5.5	5-10' Orange brown fine silty sands with subround pebbles, poorly sorted, wet at 7'
			2.1	5.5-6	
			0.7	6-6.5	
			0.3	6.5-7	
			0.6	7-7.5	
			1	7.5-8	
			0.9	8-8.5	
			1.7	8.5-9	
			1.8	9-9.5	
			0.4	9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well Pipe- 22 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/22/2021 Drilling Completed 10/22/2021

Drilling Contractor Hawk Drilling Driller Andy Helper Jesse

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Total Depth Drilled 15 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
13-13.5	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0.1	0-0.5	0-15' Black-grey fine to medium sands with subround pebbles, poorly sorted, dry Wet at 13.5'
			0.2	0.5-1	
			0.1	1-1.5	
			1.1	1.5-2	
			1.2	2-2.5	
			0.7	2.5-3	
			0.9	3-3.5	
			4.1	3.5-4	
			0.1	4-4.5	
			0.1	4.5-5	
5	10	5.00	0.2	5-5.5	
			0	5.5-6	
			0	6-6.5	
			0	6.5-7	
			0	7-7.5	
			0	7.5-8	
			0	8-8.5	
			0	8.5-9	
			0	9-9.5	
			0	9.5-10	
10	15	5.00	0	10-10.5	
			0	10.5-11	
			0	11-11.5	
			0	11.5-12	
			0	12-12.5	
			0	12.5-13	
			0	13-13.5	
			0	13.5-14	
			0	14-14.5	
			0	14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well 941-C-(11-11.5) Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/22/2021 Drilling Completed 10/22/2021

Drilling Contractor Hawk Drilling Driller Andy Helper Jesse

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Total Depth Drilled 13 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
11-11.5	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0.1	0-0.5	0-13' Black-grey fine to medium sands with subround pebbles, poorly sorted, dry Wet at 11.5
			0.3	0.5-1	
			1.1	1-1.5	
			1.7	1.5-2	
			0.1	2-2.5	
			0.7	2.5-3	
			1.7	3-3.5	
			0.6	3.5-4	
			1.3	4-4.5	
			1.4	4.5-5	
5	10	5.00	1.7	5-5.5	
			1.2	5.5-6	
			1.7	6-6.5	
			1	6.5-7	
			2.1	7-7.5	
			2.1	7.5-8	
			2	8-8.5	
			1.9	8.5-9	
			1.7	9-9.5	
			1.6	9.5-10	
10	15	5.00	1.7	10-10.5	
			1.8	10.5-11	
			1.9	11-11.5	
			2	11.5-12	
			2.1	12-12.5	
			2	12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well 2040-P2 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/22/2021 Drilling Completed 10/22/2021

Drilling Contractor Hawk Drilling Driller Andy Helper Jesse

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4.5-5	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	5.00	1.1	0-0.5	0-3' Black-grey fine to medium sands with subround pebbles, poorly sorted, dry Wet at 11.5
			1.2	0.5-1	
			2.1	1-1.5	
			1.1	1.5-2	
			0.1	2-2.5	
			0	2.5-3	
			0	3-3.5	3-5' Dark grey with briwb fine silty sands, poorly sorted, dry refusal at 5', likely concrete pad
			0	3.5-4	
			0	4-4.5	
			0	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-101 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 7 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	5.00	101	0-0.5	0-5' Black fine to medium silty sands with subround pebbles
			287	0.5-1	
			489	1-1.5	
			150	1.5-2	
			127	2-2.5	
			129	2.5-3	
			130	3-3.5	
			87	3.5-4	
			101	4-4.5	
			87	4.5-5	
5	10	2.00	10.1	5-5.5	5-7' Yellow-green fine silty sands
			6.7	5.5-6	
			10.2	6-6.5	
			11.1	6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-102 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 3 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.00	10.1	0-0.5	0-3' Brown black fine to medium sands with subround to subangular pebbles, poorly sorted, dry Refusal at 3'
			14.7	0.5-1	
			10.7	1-1.5	
			13.9	1.5-2	
			32.9	2-2.5	
			464	2.5-3	
				3-3.5	
				3.5-4	
				4-4.5	
				4.5-5	
5	10	2.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-103 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.00	1000	0-0.5	0-5' Greenish yellow fine to medium silty sands with subround to subangular pebbles, poorly sorted, damp
			1005	0.5-1	
			1200	1-1.5	
			1225	1.5-2	
			1011	2-2.5	
			1271	2.5-3	
			1361	3-3.5	
			1451	3.5-4	
			1501	4-4.5	
			1287	4.5-5	
5	10	2.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-104 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	5.00	23.7	0-0.5	0-5' Greenish yellow fine to medium silty sands with a solvent like smell, poorly sorted, damp
			88.9	0.5-1	
			76.2	1-1.5	
			49.7	1.5-2	
			87.1	2-2.5	
			99.1	2.5-3	
			1011	3-3.5	
			1217	3.5-4	
			1341	4-4.5	
			1079	4.5-5	
5	10	2.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-105 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	5.00	107	0-0.5	0-4' Brown fine to medium silty sands with some subround pebbles, poorly sorted, dry
			110	0.5-1	
			112	1-1.5	
			101	1.5-2	
			121	2-2.5	
			147	2.5-3	
			107	3-3.5	
			114	3.5-4	
			111	4-4.5	4-5' Black fine to medium sands
			121	4.5-5	
5	10	2.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-106 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	1.1	0-0.5	0-5' Brown black fine to medium sands with subround to subangular pebbles, poorly sorted, dry
			1.4	0.5-1	
			2.6	1-1.5	
			9.7	1.5-2	
			2.7	2-2.5	
			4.8	2.5-3	
			3.9	3-3.5	
			2.7	3.5-4	
			4.1	4-4.5	
			6.9	4.5-5	
5	10	2.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	

10	13			12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-107 Project/No. Alliance 51st St 30108678 Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 10/25/2021 Drilling Completed 10/25/2021

Drilling Contractor Hawk Drilling Driller Andy Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
	Grab	
	Grab	

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	1.1	0-0.5	0-5' Black fine to medium silty sands with some subround to subangular pebbles, poorly sorted, dry
			1.4	0.5-1	
			1.8	1-1.5	
			2.1	1.5-2	
			0.7	2-2.5	
			1.2	2.5-3	
			1.1	3-3.5	
			0.7	3.5-4	
			1.9	4-4.5	
			1.7	4.5-5	
5	10	2.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

March 2022

SOIL CORE / SAMPLING LOG

Boring/Well SB-201 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/16/2022 Drilling Completed 3/16/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
8.5-9	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
			1.1	0-0.5	0-4" Asphalt drive
			2.6	0.5-1	
			10.7	1-1.5	
			107	1.5-2	
0	5	4.00	361	2-2.5	4"-4' Black fine silty sands with subround to subangular pebbles, poorly sorted, dry
			247	2.5-3	
			307	3-3.5	
			325	3.5-4	
			340	4-4.5	4-5' Concrete fragments
			407	4.5-5	
			381	5-5.5	
			330	5.5-6	
			321	6-6.5	
			407	6.5-7	
			491	7-7.5	
5	10	4.00	387	7.5-8	5-10' Brown to black fine silty sands with concrete fragments, poorly sorted, wet at 9'
			420	8-8.5	
			591	8.5-9	
			381	9-9.5	
			320	9.5-10	
				10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
10	15			12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-202 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/16/2022 Drilling Completed 3/16/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
8.5-9	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
			1.1	0-0.5	0-4" Asphalt drive
			2.1	0.5-1	
			40.1	1-1.5	
			107	1.5-2	
			289	2-2.5	
0	5	4.00	421	2.5-3	4"-5' Black fine silty sands with subround to subangular pebbles, poorly sorted, dry
			801	3-3.5	
			921	3.5-4	
			524	4-4.5	
			907	4.5-5	
			951	5-5.5	
			561	5.5-6	
			685	6-6.5	
			721	6.5-7	
			649	7-7.5	
5	10	4.00	807	7.5-8	5-10' Black fine silty sands with subround to subangular pebbles, poorly sorted, wet at 9'
			921	8-8.5	
			1074	8.5-9	
			621	9-9.5	
			407	9.5-10	
				10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
10	15			12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-203 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/16/2022 Drilling Completed 3/16/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
8.5-9	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
			0.7	0-0.5	0-4" Asphalt drive
			10.1	0.5-1	
			10.7	1-1.5	
			30.1	1.5-2	4"-3' Brown fine silty sands
			107	2-2.5	
0	5	4.00	402	2.5-3	
			306	3-3.5	
			325	3.5-4	
			501	4-4.5	
			462	4.5-5	
			301	5-5.5	
			297	5.5-6	
			384	6-6.5	
			447	6.5-7	3-10' Black fine silty sands wet at 9'
			482	7-7.5	
5	10	4.00	407	7.5-8	
			727	8-8.5	
			1001	8.5-9	
			681	9-9.5	
			420	9.5-10	
				10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
10	15			12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-204 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/16/2022 Drilling Completed 3/16/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
8.5-9	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
			10.1	0-0.5	0-4" Asphalt drive
			27.6	0.5-1	
			37.1	1-1.5	
			107	1.5-2	
			261	2-2.5	
0	5	4.00	282	2.5-3	
			311	3-3.5	
			289	3.5-4	
			346	4-4.5	
			391	4.5-5	
			307	5-5.5	4"-10' Black fine silty sands with mica fragments, poorly sorted, wet at 9'
			324	5.5-6	
			607	6-6.5	
			511	6.5-7	
			407	7-7.5	
5	10	4.50	860	7.5-8	
			941	8-8.5	
			1201	8.5-9	
			821	9-9.5	
			481	9.5-10	
				10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
10	15			12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-205 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/16/2022 Drilling Completed 3/16/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
3.5-4	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0.1	0-0.5	0-4.5' Brown fine silty sands with mica fragments, wet at 4'
			0.6	0.5-1	
			1.1	1-1.5	
			4.2	1.5-2	
			9.1	2-2.5	
			10.7	2.5-3	
			66.1	3-3.5	
			187	3.5-4	
			287	4-4.5	
			640	4.5-5	4.5-5' Light greenish yellow fine silty sands, wet
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-206 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
2.5-3	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0	0-0.5	0-2" Gravel
			1.6	0.5-1	2"-2.5' Brown fine silty sands with mica fragments
			2.7	1-1.5	
			3.1	1.5-2	
			46.7	2-2.5	
			10.7	2.5-3	2.5-10' Light greenish yellow fine silty sands, wet at 3'
			0.7	3-3.5	
			1.4	3.5-4	
			1.9	4-4.5	
			6.7	4.5-5	
5	10	5.00	10.1	5-5.5	
			1.1	5.5-6	
			2.7	6-6.5	
			3.4	6.5-7	
			2.6	7-7.5	
			1.7	7.5-8	
			1.9	8-8.5	
			1.6	8.5-9	
			0.9	9-9.5	
			1.7	9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-207 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4-4.5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0	0-0.5	0-2" Gravel
			1.9	0.5-1	2"-4' Brown fine silty sands with major subangular to subround pebbles, mica fragments, poorly sorted, dry
			3.1	1-1.5	
			2.7	1.5-2	
			5.9	2-2.5	
			10.4	2.5-3	
			24.7	3-3.5	
			35.2	3.5-4	
			40.8	4-4.5	4-5' Dark grey fine silty sands with trace subround to subangular pebbles, poorly sorted, wet at 4.5'
			9.1	4.5-5	
5	10	5.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-208 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4-4.5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0.2	0-0.5	0-1" Dark brown medium sands
			0	0.5-1	1"-2.5' Light brown fine to medium silty sands with subround to subangular pebbles, poorly sorted, dry
			0	1-1.5	
			0	1.5-2	
			0	2-2.5	
			0	2.5-3	2.5-3' Concrete
			0	3-3.5	3-5' Black fine silty sands with mica fragments, wet at 4.5'
			0	3.5-4	
			0	4-4.5	
			0	4.5-5	
5	10	5.00		5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-209 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 10 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
3.5-4	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
			0.3	0-0.5	0-2" Gravels
			0	0.5-1	2"-4' Dark brown fine silty sands with mica fragments, poorly sorted, dry
			0	1-1.5	
			0.1	1.5-2	
0	5	3.50	0.1	2-2.5	
			1.6	2.5-3	
			1.7	3-3.5	
			1.9	3.5-4	
			0	4-4.5	
			0.7	4.5-5	
			0.1	5-5.5	4-10' Green yellow fine silty sands, wet at 4'
			0	5.5-6	
			0	6-6.5	
			0	6.5-7	
5	10	5.00	0	7-7.5	
			0	7.5-8	
			0	8-8.5	
			0	8.5-9	
			0	9-9.5	
			0	9.5-10	
				10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
10	15			12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-210 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4-4.5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0	0-0.5	0-2" Gravels
			0	0.5-1	2"-1' Brick material
			0	1-1.5	1-5' Brown silty clays, wet at 4.5'
			0	1.5-2	
			0	2-2.5	
			0	2.5-3	
			0	3-3.5	
			0	3.5-4	
			0	4-4.5	
			0	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-211 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
3.5-4	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.50	0	0-0.5	0-2" Gravels
			0	0.5-1	2"-3' Brick and gravel
			0	1-1.5	
			0	1.5-2	
			0	2-2.5	
			0	2.5-3	
			0	3-3.5	3-5' Brown fine silty sands with clay, wet at 4 '
			0	3.5-4	
			0	4-4.5	
			0	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-212 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4.5-5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.50	0.1	0-0.5	0-2" Brown medium sands
			0.1	0.5-1	2"-3' Gravels
			0	1-1.5	
			0	1.5-2	
			0	2-2.5	
			0	2.5-3	
			0	3-3.5	3-5' Brown fine silty sands with mica, poorly sorted, wet at 5 '
			0	3.5-4	
			0	4-4.5	
			0	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-213 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4-4.5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	4.00	0	0-0.5	0-2" Gravels
			0	0.5-1	2"-2' Brown fine silty sands with mica, poorly sorted, dry
			0	1-1.5	
			0.7	1.5-2	
			8.1	2-2.5	2-5' Black silty clays with trace sub angular gravels, poorly sorted, wet at 4.5'
			5.1	2.5-3	
			3.7	3-3.5	
			9.2	3.5-4	
			18.7	4-4.5	
			10.1	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-214 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4-4.5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.50	0	0-0.5	0-2" Gravels
			0	0.5-1	2"-4.5' Brown fine silty sands with some subround to subangular pebbles, mica, poorly sorted, wet at 4.5'
			0	1-1.5	
			0	1.5-2	
			0	2-2.5	
			1.1	2.5-3	
			0.2	3-3.5	
			1.7	3.5-4	
			5.8	4-4.5	
			2.1	4.5-5	4.5-5' Black silty sands with clay
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-215 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4.5-5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.50	0	0-0.5	0-2" Gravels
			0	0.5-1	2"-3' Brown fine silty sands, some yellowish green coloring, poorly sorted, dry
			0	1-1.5	
			0	1.5-2	
			0.4	2-2.5	
			0.6	2.5-3	
			1.2	3-3.5	3-5' Black silty clay, wet at 5'
			2.2	3.5-4	
			6.1	4-4.5	
			11.7	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-216 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 5 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
4.5-5	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
0	5	3.50	0	0-0.5	0-2" Gravels
			0	0.5-1	2"-4' Brown fine silty sands with mica, subround to subangular pebbles, poorly sorted, wet at 4'
			0	1-1.5	
			0	1.5-2	
			0	2-2.5	
			0.7	2.5-3	
			1.2	3-3.5	
			6.6	3.5-4	
			1.4	4-4.5	4-5' Green yellow fine silty sands
			0.5	4.5-5	
5	10			5-5.5	
				5.5-6	
				6-6.5	
				6.5-7	
				7-7.5	
				7.5-8	
				8-8.5	
				8.5-9	
				9-9.5	
				9.5-10	
10	15			10-10.5	
				10.5-11	
				11-11.5	
				11.5-12	
				12-12.5	
				12.5-13	
				13-13.5	
				13.5-14	
				14-14.5	
				14.5-15	

SOIL CORE / SAMPLING LOG

Boring/Well SB-217 Project/No. Alliance 51st St 30108678.03C Page 1 of 1

Site Location 1646 S 51st Street, Phila, PA Drilling Started 3/17/2022 Drilling Completed 3/17/2022

Drilling Contractor Hawk Drilling Driller Ted Helper

Drilling Fluid Used None Drilling Method Direct Push

Length and Diameter of Coring Device 5'x2" Sampling Interval 0.5 feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated Datum

Total Depth Drilled 15 Feet

Prepared By M. Hilinski

Sampling Data:

Depth	Grab/Composite	Laboratory Analysis
8.5-9	Grab	VOCs

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (Feet)	PID Reading (ppm)	Core Interval (Feet)	Sample/Core Description
			10.7	0-0.5	0-4" Asphalt drive
			25.2	0.5-1	4"-15' Dark grey to black fine silty sands with gravel, wet at 9'
			80	1-1.5	
			84	1.5-2	
			91	2-2.5	
0	5	3.50	80	2.5-3	
			60	3-3.5	
			261	3.5-4	
			381	4-4.5	
			497	4.5-5	
			501	5-5.5	
			162	5.5-6	
			149	6-6.5	
			211	6.5-7	
			207	7-7.5	
5	10	5.00	721	7.5-8	
			841	8-8.5	
			981	8.5-9	
			649	9-9.5	
			790	9.5-10	
			321	10-10.5	
			317	10.5-11	
			201	11-11.5	
			99	11.5-12	
10	15	5.00	107	12-12.5	
			47	12.5-13	
			38	13-13.5	
			21	13.5-14	
			18	14-14.5	
			20	14.5-15	

March 2023

ARCADIS

Sample Log

Well/Boring 2C40_P2 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 2/17/21 Drilling Completed 2/17/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jack

Prepared By M.Hilinski Hammer Weight _____ Hammer Drop _____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-4' Orange Brown - gray silty	0/0
				Sands w/ Clay	0/0
				4'-5' Orange Brn fine silty sand	0/0
					0/0
					0/0
5	10	5		5-8 Orange Brown silty sand	0/0
				8-10 Brn fine silty sand	0/0
				wtd @ 10	0/0
					0/0
					0/0
					0/0

9.5-10 Ind
9.5

ARCADIS

Sample Log

Well/Boring: 1CL43-PF

Project Name and No.: Alliance 51st Street

Site Location: Phila, Pa

Drilling Started: 3/17/17

Drilling Completed: 3/17/17

Total Depth Drilled: 8 feet

Hole Diameter: 2 inches

Sampling Interval: _____ feet

Length and Diameter of Sampling Device: 5'x 1.75"

Type of Sampling Device: Macrocore

Drilling Method: Direct Push

Drilling Fluid Used: None

Drilling Contractor: Hawk

Driller: Andy

Helper: Josh

Prepared By: M.Hilinski

Hammer Weight: _____

Hammer Drop: \ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	4		0-1' orange brown - silty fine sand	0/0
				w/ clay	0/0
				1-4 orange brown	0/0
					0/0
					0/0
4	8	4		silty sand	0/0
					0/0
					0/0
					0/0
					0/0

Leg 71.8 94 Dup-1

ARCADIS

Sample Log

Well/Boring MW43-PS Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/21 Drilling Completed 3/17/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jason

Prepared By M.Hilinski Hammer Weight / Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	5		CS Black/Grey Silty	0/0
1				clay	0/0
2					0/0
3					0/0
4					0/0
5	10	4		SAA, wet @ 8	0/0
					0/0
					0/0
					0/0
					0/0

Temp 75-S GC

ARCADIS

Sample Log

Well/Boring SB-304 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/12 Drilling Completed 3/17/12

Total Depth Drilled 8 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight 1 Hammer Drop 1 inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	4		Cm 4 Gray-Blk f gritty Sand	0/0
				w/ concrete fragments	0/0
				4-8 orange brown f-m silty Sa	0/0
					0/0
					0/0
4	8	3.5		f-c SAL	0/0
				wet @ 8	0/0
					0/0
					0/0
					0/0

Lead 2.5-3 7.5-8

ARCADIS

Sample Log

Well/Boring SB-29 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/21 Drilling Completed 3/17/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jake

Prepared By M.Hilinski Hammer Weight / Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-5 Brown / Black	0/0
				F silty sand w/ concrete	0/0
				NR	0/0
					0/0
					0/0
5	10	4		5-6 SM	0/0
				6-10 Brown f-m silty sand	0/0
				w/ clay hit @ 8'	0/0
					0/0
					0/0
					/

Item M

SB-3 SB-8 9211

ARCADIS

Sample Log

Well/Boring ~~GR-36~~ GR-306

Project Name and No. Alliance 51st Street

Site Location Phila, Pa

Drilling Started 2/17/21

Drilling Completed 2/17/21

Total Depth Drilled 10 feet

Hole Diameter 2 inches

Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75"

Type of Sampling Device Macrocore

Drilling Method Direct Push

Drilling Fluid Used None

Drilling Contractor Hawk

Driller Andy

Helper Jeff

Prepared By M.Hilinski

Hammer Weight /

Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-5' Black/Grey F silty Sand w/ concrete FC, Asy	0/0
					0/0
					0/0
					0/0
5	10	4.5		5-10 Orange Brown F-M silty Sand, wet @ 5'	0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0

lead

215-3

75-8

951

ARCADIS

Sample Log

Well/Boring GP-307 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 7/17/23 Drilling Completed 7/17/23

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight 1 Hammer Drop 1 inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-6" Asphalt	0/0
				6"-5' Black f-m Sand	0/0
				w/ silt, Gravel GR-SA	0/0
					0/0
					0/0
5	10	4		SAA w/ Q G	0/0
					0/-
					-/-
					0/0
					0/0

1 of 1 S.S. 6 117

ARCADIS

Sample Log

Well/Boring GR-3SB Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 2/17/23 Drilling Completed 2/17/23

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jesse

Prepared By M.Hilinski Hammer Weight / Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	4		0-6" Asphalt	0/0
				6" - 5' black/ Gray fill	0/0
				Silty Sand w/ clay FC	0/0
					0/0
					0/0
5	10	4		SAA, more Gravel	0/0
				wet @ 6'	0/0
					0/0
					0/0
					0/0

RS 5.5.6 1125

ARCADIS

Sample Log

Well/Boring SB-309 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started _____ Drilling Completed _____

Total Depth Drilled 4 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Fluid Used None

Drilling Method Direct Push

Drilling Contractor Hawk Driller _____ Helper _____

Hammer Weight _____ Hammer Drop _____ inches

Prepared By M.Hilinski

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4			0-6" Asphalt	
				6"-4' Black/Gray Fine Sand, some M, Dry, ~~Loose~~	
				Wet @ 4'	

Lab

4.0.t

111

ARCADIS

Sample Log

Well/Boring GP-310 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/21 Drilling Completed 3/17/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight ____ Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5			0-0.1 Asphalt	0/0
				0.1-5' Brick/Brown Sandy Silty Gravel	0/0
					0/0
					0/0
5	10			5-10 SAA wet@9'	0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0
					0/0

Renzm /Trip

8.5-9

10 20

ARCADIS

Sample Log

Well/Boring GR-311 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 7/17/07 Drilling Completed 7/17/07

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight 1 Hammer Drop 1 inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	1			0-6" Asphalt	0/0
				6"-2' Black fine silty sand	0/0
				2'-5' Gray f-m silty sand	0/0
					0/0
					0/0
5	6			5-10 Lith @ 8	0/0
				SAA	0/0
					0/0
					0/0
					0/0

Install well RIS

7.9-8

1620

2

ARCADIS

Sample Log

Well/Boring SB-219 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/17 Drilling Completed 3/17/17

Total Depth Drilled 6 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jeff

Prepared By M.Hilinski Hammer Weight \ Hammer Drop \ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5			0-0.1' Asphalt	0
				0.1-5' Black Fine Sand	0
				w/ some Grit	0
				wet @ 5'	0
					0
					0
					0
					0
					0
					0
					0

1-pull

~~TPH~~ 4156 ~~TCL~~ 11cd

ARCADIS

Sample Log

Well/Boring GR-3/3 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/21 Drilling Completed 3/17/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jesse

Prepared By M.Hilinski Hammer Weight / Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	1	4		0-6" Asphalt	0/0
				6"- 5' Gray Fine Sand	0/0
					0/0
					0/0
					0/0
5	5	4.7		Sand	0/0
					0/0
					0/0
					0/0
					0/0

Jesse

7.5-8 1040 7.5-8

ARCADIS

Sample Log

Well/Boring GP-314 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/22 Drilling Completed 3/17/22

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jess

Prepared By M.Hilinski Hammer Weight / Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4	0-5	Brick fill gray	0/0
					0/0
					0/0
				Brick Gravel Log @ 8	0/0
					0/0
5	10	5			0/0
					0/0
					0/0
					0/0
					0/0
					0/0

Log GP-3 75-8 10'

ARCADIS

Sample Log

Well/Boring SB-315 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 2/11/21 Drilling Completed 2/11/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Jose

Prepared By M.Hilinski Hammer Weight (Hammer Drop / inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	4		0-5 Black / Gray f silty	0/0
				Sand w/ Brick Pf	0/0
					0/0
					0/0
					0/0
5	8	4		5-10 Orange Brown f-m	1/1
				silty Sand wet @ 8	0/0
					0/0
					0/0
					0/0

Lab 2.5-3 7.5-8 TP

ARCADIS

Sample Log

Well/Boring GR-216 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 3/17/21 Drilling Completed 3/17/21

Total Depth Drilled 8 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper Josh

Prepared By M.Hilinski Hammer Weight ✓ Hammer Drop ✓ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	4		0-1' Grey & sand, w/ gravel	0.0
				1-4 orange brown f-m sand	0.0
				sand	0.0
					0.0
					0.0
4	8	4		4-8 sand wet@8	0.0
					0.0
					0.0
					0.0
					0.0

1 of 2 0.1-7 7.2-8 93%

June 2023

ARCADIS

Sample Log

Well/Boring SB-401 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 4/27/17 Drilling Completed 4/27/17

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval — feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper —

Prepared By M.Hilinski Hammer Weight — Hammer Drop — inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	3		0-4" Asphalt, Brown Brick Base	0/0
				4"-4' Red/Brick - Brown Fine Silty Clay	0/0
				4'-5' Brick	0/0
					0/0
					1.1/1.2
5	10	3		5-9 Red - Brick Rine Sandy Silty	0/0
				w/Clay Pt, dry	1.1/0
				9-10 Black Sandy Clay, wet	0/1.1
					0.0/7.3
					2.1/62.1

Sample Log

Well/Boring SR-402 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 6/23/23 Drilling Completed 6/23/23

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval ~~—~~ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper ~~—~~

Prepared By M.Hilinski Hammer Weight — Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
C	4	3		0-6" Asphalt, concrete base	C / C
				6"-4' Brick base, fine fr/lg clay	1.7 / 1.2
				4-5 Brick	1.9 / 2.7
					1.41 / 1.8
5	10	4		5-8 Brick fine fr/md clay	4.4 / 4.1
				w/ FR Pebbles, PS, clay	2.7 / 1.8
				8-10 SAA wet, Petroleum odor	1.7 / 1.4
					(C) / RA
					Lab / 7.01

Sample Log

Well/Boring GR-413 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 6/23/23 Drilling Completed 6/23/23

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper —

Prepared By M.Hilinski Hammer Weight — Hammer Drop — inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5			0-2" Grass	0/0
				2"-1' Gld concrete	0/0
				1'-4' Brick & sandy silt	0/0
				4'-5' Yellow Green fine sand w/ FR Pebbles	142/221
					145/187
					192/91
				5-10 FAA, Wet @ 8'	194/211
					202/217
					204/189
					250/217

ARCADIS

Sample Log

Well/Boring SR.414 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 6/23/23 Drilling Completed 6/23/23

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval — feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper —

Prepared By M.Hilinski Hammer Weight — Hammer Drop — inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4	4		0-2" Gravel	1/1
				2"-3' Grey crushed concrete	1/1
				3'-5' Thick-Grey fine silty Clay w/ FR Pebbles, wet @ 5'	1/1
					0/1.1
4	8	5		Fill Rocky Clay	10/1.1
					0/1.1
					0/1.1
					0/1.1
					0/1.1

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Sample Log

Well/Boring SB-41A

Project Name and No. Alliance 51st Street

Site Location Phila, Pa

Drilling Started 6/22/22

Drilling Completed 6/22/22

Total Depth Drilled 10 feet

Hole Diameter 2 inches

Sampling Interval — feet

Length and Diameter of Sampling Device 5'x 1.75"

Type of Sampling Device Macrocore

Drilling Method Direct Push

Drilling Fluid Used None

Drilling Contractor Hawk

Driller Andy

Helper —

Prepared By M.Hilinski

Hammer Weight —

Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	3		0-2" Gravel	1 / 1
1				2"-3' Grey crushed coarse	1.1 / 1.1
1				3-5' Black brown fine silty clay	1.1 / 1.1
1				w/ fine Pebbles, wet @ 4'	2.2 / 2.2
1					5.0 / 4.1
5	10	4		5-10 FAR	10 / 10
					29 / 25
					27 / 30
					159 / 150
					157 / 160

ARCADIS

4ol flush

Sample Log

Well/Boring SB-4(6) Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 4/23/21 Drilling Completed 4/23/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper —

Prepared By M.Hilinski Hammer Weight — Hammer Drop — inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5			0-4 Brown. Rock 4-5 Sandy silt	0/0
				w/ Rocks, PC	0/0
					0/0
					0/0
					0/0
5	10			Sand wet	11/211
					0/0
					0/0
					0/0
					0/0
					0/0

ARCADIS

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407 Shaw

Sample Log

Well/Boring SB-407 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 6/23/21 Drilling Completed 6/23/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval — feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper —

Prepared By M.Hilinski Hammer Weight — Hammer Drop — inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	4'	4		0-2" Asphalt	0/0
				2"-4' black f silty clay	0/0
				4-5' yellow f-m sand, silty	2.1/4.1
					6.1/9.3
				5-10 SAS	10.1/10.7
5	10	4		wet @ 7'	10.7/6.4
					6.4/7.1
					10.2/15
					4.7/6.8
					7.1/40C

ARCADIS

407 Sky

Sample Log

Well/Boring LICS8 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 6/23/22 Drilling Completed 6/23/22

Total Depth Drilled 6 feet Hole Diameter 2 inches Sampling Interval — feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper —

Prepared By M.Hilinski Hammer Weight — Hammer Drop — inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	6	5		0-6" Asphalt	C / C
				6"-6' Black Sandy Silt	107 / SRD
					101 / 102
					12" / 173
					107 / 100
					107 / 108

4CG flight / other soil on fill

Sample Log

Well/Boring 4CG

Project Name and No. Alliance 51st Street

Site Location Phila, Pa

Drilling Started 6/27/17

Drilling Completed 6/27/17

Total Depth Drilled 5 feet

Hole Diameter 2 inches

Sampling Interval ____ feet

Length and Diameter of Sampling Device 5'x 1.75"

Type of Sampling Device Macrocore

Drilling Method Direct Push

Drilling Fluid Used None

Drilling Contractor Hawk

Driller [illegible]

Helper —

Prepared By M.Hilinski

Hammer Weight ____

Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
C	5	5		0-6" Asphalt	0
				6"-5' Black silty soil	0 / 0
				GP Asphalt	C / 1.1
					21 / 4.1
					SC / 9.7

Sample Log

Well/Boring 410 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 6/23/21 Drilling Completed 6/27/21

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval — feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper —

Prepared By M.Hilinski Hammer Weight — Hammer Drop — inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	3		0-7' Asphalt	0/0
				7'-4' Brown/dark Grey A	101/45
				Sandy Silt, w/ GR. Pebbles, DS, Moy	117/101
				Lt. Gr Black fine Sand	104/109
					102/121
5	F	4		5'- 10 ~~FAA~~ Black. Grey	401/441
				F Sands w/ clays, Lot @ 8'	527/544
					611/603
					614/607
					645/621

ARCADIS

Sample Log

Well/Boring 411 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 6/27/27 Drilling Completed 6/27/27

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval — feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper —

Prepared By M.Hilinski Hammer Weight — Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	5		0-2" Asphalt	0/0
				2'-5' Gray m Sand	10/11.7
					22.7/22.6
					21/20.1
				Refusal @ 5'	0.4/0.1

ARCADIS

Sample Log

Well/Boring 412 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 6/23/22 Drilling Completed 6/23/22

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval — feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper —

Prepared By M.Hilinski Hammer Weight — Hammer Drop — inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	5		0-6" Asphalt, roots 6in	1/1
				6"-5' Brown silty sand w/	1/1
				mica, clay, PG, dry	1/1
					1.2/2.4
					9.7/10.1
5	10	4		SAA	1/1
					1/1
					1/1
					1/1
					1/1
					0/0

ARCADIS

Sample Log

Well/Boring 413 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 6/22/22 Drilling Completed 6/22/22

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval — feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper —

Prepared By M.Hilinski Hammer Weight — Hammer Drop \ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-3" Gravel	Y/N
				3"-5' Brown-Gray Gravelly w/	Y/N
				fine sand, PL, dry	Y/N
					Y/N
					Y/N
5	F	4		Silty, damp @ 9.5	Y/N
					Y/N
					Y/N
					Y/N
					Y/N

ARCADIS

Sample Log

Well/Boring 414 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 6/22/22 Drilling Completed 6/22/22

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller Andy Helper —

Prepared By M.Hilinski Hammer Weight — Hammer Drop _____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	4		0-3" Gravel	0/0
"				3"-5' Brown fine sand, wet	0/0
"				GR Pebbles, BG, dry	0/0
"					0/0
"					0/0
5	10	4		5-10 SAA, damp @ 9.5'	0/0
					0/0
					0/0
					0/0
					0/0

May 2024

ARCADIS

Page ____ of ____

Sample Log

Well/Boring SB-206 + DUP-1 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 0920 Drilling Completed 0925

Total Depth Drilled 3 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device ~~5'x 1.75"~~ Type of Sampling Device ~~Macrocore~~ Excavator

Drilling Method Test Pit ~~Direct Push~~ Drilling Fluid Used None

Drilling Contractor ~~Hawk~~ Driller ____ Helper ____

Prepared By Sam Kimble Hammer Weight ____ Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	3	ft		0-3 ft sand, trace silt, little granules, subround to round, well sorted, non-plastic, moist, brownish green. Reached water table at 3 ft.	

ARCADIS

Page ____ of ____

Sample Log

Well/Boring SB-209 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started ____ Drilling Completed ____

Total Depth Drilled 5 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device ~~5'x 1.75"~~ Type of Sampling Device excavator ~~Macrocore~~

Drilling Method test pit ~~Direct Push~~ Drilling Fluid Used None

Drilling Contractor ~~Hawk~~ Driller ____ Helper ____

Prepared By ____ Hammer Weight ____ Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	1	ft		0-1 ft sand, fine to medium, little granules to large pebbles, subround to subangular, trace silt, poorly sorted, dry, light brown.	
1	4	ft		1-4 ft sand, fine to medium, little granules to large pebbles, subround to subangular, trace silt, poorly sorted, moist, dark brown.	
4	5	ft		4-5 ft sand, fine, little granules, subrounded, trace silt, well sorted, wet, grayish green.	
				reached water at 5 ft.	

ARCADIS Page ____ of ____

Sample Log

Well/Boring 501 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 1030 Drilling Completed 1035

Total Depth Drilled 4.5 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device ~~5'x 1.75"~~ Type of Sampling Device Excavator ~~Macrocore~~

Drilling Method Test Pit ~~Direct Push~~ Drilling Fluid Used None

Drilling Contractor ~~Hawk~~ Driller ____ Helper ____

Prepared By Sam Kimble Hammer Weight ____ Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	3			0-3ft silt sand, fine-medium sand, little granules to large pebbles, subrounded to	
				subangular, trace silt; poorly sorted, low plasticity, no dilatency, dry, dark brown	
3	4.5			3-4.5 ft sand, fine sand, little granules to large pebbles, subrounded to subangular,	
				trace silt; poorly sorted, low plasticity, no dilatency, moist, brownish green.	
				Reached water at 4.5 ft	

ARCADIS Page ____ of ____

Sample Log

Well/Boring SB-216 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 1035 Drilling Completed 1040

Total Depth Drilled 4.5 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device ~~5'x 1.75"~~ Type of Sampling Device ~~Macrocore~~ Excavator

Drilling Method ~~Direct Push~~ Test Pit Drilling Fluid Used None

Drilling Contractor ~~Hawk~~ Driller ____ Helper ____

Prepared By Sam Kimble Hammer Weight ____ Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	3.5			0-3.5 ft silt sand, fine-medium sand, little granules to large pebbles, subround to	
				subangular, trace silt; poorly sorted, low plasticity, no dilatency, dry, dark brown	
3.5	4.5			3.5-4.5 sand, fine sand, little granules to small pebbles, subrounded to subangular,	
				trace silt; sorted, no plasticity, no dilatency, moist, brownish green	
				reached water at 4.5 ft	

ARCADIS

Page ____ of ____

Sample Log

Well/Boring 502 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 1115 Drilling Completed 1120

Total Depth Drilled 4 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device ~~5'x 1.75"~~ Type of Sampling Device Excavator ~~Macrocore~~

Drilling Method Test Pit ~~Direct Push~~ Drilling Fluid Used None

Drilling Contractor ~~Hawk~~ Driller ____ Helper ____

Prepared By Sam Kimble Hammer Weight ____ Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	2			0-2ft sand, very fine to fine sand, little granules to medium pebbles, subround to subangular, trace silt; poorly sorted, low plasticity, no dilatency, moist, dark brown	
2	4			2-4ft silt sand, fine to medium sand, little granules to small pebbles, subrounded to subangular, trace silt; poorly sorted, medium plasticity, no dilatency, moist, brownish green. Reached water at 4ft.	

ARCADIS

Page ____ of ____

Sample Log

Well/Boring SO4 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started ____ Drilling Completed ____

Total Depth Drilled 8 feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device ~~5'x 1.75"~~ Type of Sampling Device Excavator ~~Macrocore~~

Drilling Method Test Pit ~~Direct Push~~ Drilling Fluid Used None

Drilling Contractor ~~Hawk~~ Driller ____ Helper ____

Prepared By Sam Kimble Hammer Weight ____ Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	~~1.5~~ 3			0-~~1.5~~3 ft sand, fine to medium, little granules to small pebbles, subround to subangular, trace silt; poorly sorted, medium plasticity, no dilatency, dry; brown.	
3	8			3-8 ft small pebbles, little granules to small pebbles, subround to subangular, trace silt; sorted, no plasticity, no dilacency, moist, black, odor.	
				Reached water at 8 ft.	

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Page ____ of ____

Sample Log

Well/Boring 503 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 1140 Drilling Completed 1145

Total Depth Drilled ____ feet Hole Diameter 2 inches Sampling Interval ____ feet

Length and Diameter of Sampling Device ~~5'x 1.75"~~ Type of Sampling Device ~~Macrocore~~ EXCAVATOR

Drilling Method ~~Direct Push~~ Test Pit Drilling Fluid Used None

Drilling Contractor ~~Hawk~~ Driller ____ Helper ____

Prepared By Sam Kimble Hammer Weight ____ Hammer Drop ____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	3.5			0-3.5 ft sand, fine to medium, little granules to large pebbles, subround to subangular, trace silt; poorly sorted, low plasticity, no dilatency, dry, brown	
3.5	6			3.5-6 ft silt sand, very fine to fine, little granules to granules, subround to subangular, trace silt; poorly sorted, med plasticity, no dilatency, moist, black, strong odor	
				Reached water at 6 ft.	

June 2024

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Sample Log

Well/Boring SB-505 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 10/28/13 Drilling Completed 10/28/13-10/29/13

Total Depth Drilled 15 feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller _____ Helper _____

Prepared By L. Donath Hammer Weight _____ Hammer Drop _____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	3.1		0-3.1 SAND, fine, granules, sub-angular	
				dry, well sorted, loose, weak cementation / GLEY1 3/5GY very dk greenish gray	
5	10	1.6		same as above; but wet/hit	
Water @	10'			GLEY1 3/N very dark gray	
10	15	3.8		SAME as above	

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Sample Log

Well/Boring SB-506 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 11/20/2052 Drilling Completed 10/28

Total Depth Drilled 15 feet Hole Diameter 2 inches Sampling Interval 5 feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller _____ Helper _____

Prepared By L. Ponati Hammer Weight _____ Hammer Drop _____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	2.5		0-1.2 SAND, fine-very FINE, subrounded	
dry,	loose,	little silt,		GLEY1 7/10GY light greenish gray	
				1.2-2.5 SAME as above; but NO silt	
7.5 YR	8/6	reddish yellow			
5	10	1.3		5-6.3 SAND, fine, granules, small pebbles	
NOT	well	sorted, wet		sub-angular, nit water @ 10'	
GLEY	1 4/5GY	dark		greenish gray	
10	15	1.6		SAME as above	

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Sample Log

Well/Boring SB-508 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 1103 Drilling Completed 1123

Total Depth Drilled 10 feet Hole Diameter 2 inches Sampling Interval 5 feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller _____ Helper _____

Prepared By L. Donati Hammer Weight _____ Hammer Drop _____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	2.9		0 - 1.4 SAND, fine, some-little silt, sub-angular	
well	sorted, dry, loose			GLEY 1 6/5GY greenish gray	
				1.4-2.9 SAME as above; but w/granules GLEY 1 3/10Y very dark gray	
5	10	3.7		5-8.7 SAME as above GLEY 2	
6/5BG	greenish gray				

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Sample Log

Well/Boring SB-509 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 1143 Drilling Completed 1150

Total Depth Drilled _____ feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller _____ Helper _____

Prepared By L. Dondti Hammer Weight _____ Hammer Drop _____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	3		0-3 SAND, fine, granules, sub-angular - angular	
dry, well sorted, loose, GLEY1 3/5B dark bluish grey					
5	10	2.7		water table @10' 5-5.4 SAME as above	
				5.4 -7.7 SAND, fine, and, dry to some moist, loose, 7/GEY1 3/2	
10	15	4.7		10- 14.7 SAND, fine, very loose, moist, micas present,	
well sorted, tan to brown					

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Sample Log

Well/Boring SB-510 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 1155 Drilling Completed 1215

Total Depth Drilled _____ feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller _____ Helper _____

Prepared By L. Donati Hammer Weight _____ Hammer Drop _____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	2.3		0-2.3 SAND, fine, little silt, subangular, well sorted	
dry,	light	gray	coloration		
5	9	4.7		5-4.7 SAND, fine, micas present, some granules	
dry,	loose	, 7.5	YR 5/6		

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Page 1 of 1

Sample Log

Well/Boring SB-511 4'

Project Name and No. Alliance 51st Street

Site Location Phila, Pa

Drilling Started 1302

Drilling Completed 1330

Total Depth Drilled 15 feet

Hole Diameter 2 inches

Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75"

Type of Sampling Device Macrocore

Drilling Method Direct Push

Drilling Fluid Used None

Drilling Contractor Hawk

Driller _____

Helper _____

Prepared By L. Donati

Hammer Weight _____

Hammer Drop _____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	1.1		0-1.1 SAND, granules, sub-angular	
to	angular,	dry,	well sorted, loose 7.5YR 4/1	dark gray	
5	10	1.2		5-6.2 SAME as above, micas	
				were present water table at	
				10'	
10	15	4.9		10-14.9 clay, high plasticity, low	
dilatancy,	wet,	very soft	GLEY1 8/5G_/2	pale green	

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Sample Log

Well/Boring SB-512 (~~SB-51~~)

Project Name and No. Alliance 51st Street

Site Location Phila, Pa

Drilling Started

Drilling Completed

Total Depth Drilled _____ feet

Hole Diameter 2 inches

Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75"

Type of Sampling Device Macrocore

Drilling Method Direct Push

Drilling Fluid Used None

Drilling Contractor Hawk

Driller

Helper

Prepared By

Hammer Weight

Hammer Drop _____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	2.8		0-1.6 SAND, fine, little-some granules, dry. angular to sub-angular	
				1.6-2.8 SAND and silt, dry, NO plasticity, No dilatancy, sub-angular, loose, GLEY2 2.5/10 BG	
5	10	2		*water table @10' clay & sand, wet moist low plasticity, no dilatancy, loose/soft, GLEY2 4/5B dark bluish gray	
10	15	4.4		*high PID@168ppm, SAME as above	

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Sample Log

Well/Boring SB-513 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started _____ Drilling Completed _____

Total Depth Drilled _____ feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller _____ Helper _____

Prepared By L. Doracti Hammer Weight _____ Hammer Drop _____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	5	2.8		0-2 SAND, FNL, granules, dry, sub-angular to angular, loose, GLEY 2 7/10B light bluish gray	
				2-2.8 SAND & clay, dry, compact, loose, sub-angular, GLEY2 4/10G greenish gray	
5	10	2		5-7 SAME as above with some loose soil	
from but color is			10YR 5/4	yellowish brown (may be from borehole walls above interval)	
10	15	2.2		10-12.2 SAME as above without yellowish	
brown soil					

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Sample Log

Well/Boring SB-~~5~~/~~14~~514 Project Name and No. Alliance 51st Street

Site Location Phila, Pa Drilling Started 210 Drilling Completed 225

Total Depth Drilled _____ feet Hole Diameter 2 inches Sampling Interval _____ feet

Length and Diameter of Sampling Device 5'x 1.75" Type of Sampling Device Macrocore

Drilling Method Direct Push Drilling Fluid Used None

Drilling Contractor Hawk Driller _____ Helper _____

Prepared By L. Donati Hammer Weight _____ Hammer Drop _____ inches

Sample Depth (feet below land surface) From	To	Sample Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample Description	PID (ppm)
0	~~0~~5	2.8		0-2.0 SAND, FINE, ~~SOME~~ little granules, dry, loose,	
sub-angular,		GLEY 2 ~~5~~/10B dark bluish gray			
2.0	2.8	SAND, FINE, compact, loose, dry, sub-angular GLEY2 ~~5B~~/2.5/5PB bluish black			
5	10	2		5-7 SAME as above; but moist and	
GLEY2 ~~5~~/5B		dark bluish gray			
10	15	1.8		10-11.8 ~~SAME~~ as above	

January 2025

Soil/Sediment Sampling Form

Client:	Alliance	**Location ID:**	SB-604	**Date:**	1/8/2025	**Work Order(s):**	January 2025 Soil Sampling
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site		
Weather:	Cloudy 30			**Field Technician:**	Raymond Miller		
Depth Below Water Surface:	-	**Sample Equipment:**	Direct Push (DP)				
Latitude:			**Longitude:**				
Sample ID:	SB-604-(7.5-8)	**Sample Time:**	09:25	**Replicate Type / Replicate ID:**	/ / /		
Scope of work completed?	Yes						

Constituent Sampled	Comments	Container	Number	Preservative
Metals (SW6020)	Total Cr	Amber Glass	1	None
Metals (SW846 7196A)	Hex Cr	Amber Glass	1	None

From	To	Soil/Sediment/Sludge Description
0	4.5	(0.0-4.5 ft): SAND, fine, little silt; soft, poorly sorted, dry, 10YR 4/3 - brown.
4.5	5	(4.5-5.0 ft): SAND, fine, little silt; soft, poorly sorted, dry, 2.5Y 2.5/1 - black.
5	8	(5.0-8.0 ft): SAND, fine, little silt; soft, poorly sorted, dry, 2.5Y 2.5/1 - black.
8	10	(8.0-10.0 ft): SAND, fine, little silt; soft, poorly sorted, dry, 2.5Y 2.5/1 - black.

Lithology Photos

Photos

No photos available

Comments:

ft = feet
in = inches

°F = degrees Fahrenheit
°C = degrees Celsius

Soil/Sediment Sampling Form

Client:	Alliance	**Location ID:**	SB-701	**Date:**	1/8/2025	**Work Order(s):**	January 2025 Soil Sampling
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site		
Weather:	Cloudy 30			**Field Technician:**	Raymond Miller		
Depth Below Water Surface:	-	**Sample Equipment:**	Direct Push (DP)				
Latitude:			**Longitude:**				
Sample ID:	SB-701(6-6.5)	**Sample Time:**	09:50	**Replicate Type / Replicate ID:**	/ / /		
Scope of work completed?	Yes						

Constituent Sampled	Comments	Container	Number	Preservative
Metals (SW6020)	Total Cr	Amber Glass	1	None
Metals (SW846 7196A)	Hex Cr	Amber Glass	1	None

From	To	Soil/Sediment/Sludge Description
0	5	(0.0-5.0 ft): SAND, fine to medium, subround, little silt; soft, poorly sorted, dry, 10YR 4/3 - brown.
5	10	(5.0-10.0 ft): SAND, very fine to medium, subround, little silt; soft, poorly sorted, dry, 10YR 2/1 - black.

Lithology Photos

Photos

No photos available

Comments:

ft = feet
in = inches

°F = degrees Fahrenheit
°C = degrees Celsius

Soil/Sediment Sampling Form

Client:	Alliance	**Location ID:**	SB-702	**Date:**	1/8/2025	**Work Order(s):**	January 2025 Soil Sampling
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site		
Weather:	Cloudy 30			**Field Technician:**	Raymond Miller		
Depth Below Water Surface:	-	**Sample Equipment:**	Direct Push (DP)				
Latitude:			**Longitude:**				
Sample ID:	SB-702(0.0-0.5)	**Sample Time:**	10:40	**Replicate Type / Replicate ID:**	/ / /		
Scope of work completed?	Yes						

Constituent Sampled	Comments	Container	Number	Preservative
Metals (SW6020)	Total Cr	Amber Glass	1	None
Metals (SW846 7196A)	Hex Cr	Amber Glass	1	None

From	To	Soil/Sediment/Sludge Description
0	5	(0.0-5.0 ft): SAND, very fine to medium, subround, little silt, trace gravel, granules, subround; soft, poorly sorted, dry to moist, 10YR 4/3 - brown.
5	10	(5.0-10.0 ft): SAND, very fine to medium, subround, little silt, trace gravel, granules, subround; soft, poorly sorted, dry to moist, 10YR 2/1 - black.

Lithology Photos

Photos

No photos available

Comments:

ft = feet
in = inches

°F = degrees Fahrenheit
°C = degrees Celsius

Soil/Sediment Sampling Form

Client:	Alliance	**Location ID:**	SB-703	**Date:**	1/8/2025	**Work Order(s):**	January 2025 Soil Sampling
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site		
Weather:	Cloudy 30			**Field Technician:**	Raymond Miller		
Depth Below Water Surface:	-	**Sample Equipment:**	Direct Push (DP)				
Latitude:			**Longitude:**				
Sample ID:	SB-703(5.5-6)	**Sample Time:**	10:15	**Replicate Type / Replicate ID:**	/ / /		
Scope of work completed?	Yes						

Constituent Sampled	Comments	Container	Number	Preservative
Metals (SW6020)	Total Cr	Amber Glass	1	None
Metals (SW846 7196A)	Hex Cr	Amber Glass	1	None

From	To	Soil/Sediment/Sludge Description
0	5	(0.0-5.0 ft): SAND, very fine to medium, subround, little silt; soft, poorly sorted, dry, 10YR 4/3 - brown.
5	10	(5.0-10.0 ft): SAND, very fine to medium, subround, little silt, little clay; soft, poorly sorted, moist, 10YR 2/1 - black.

Lithology Photos

Photos

No photos available

Comments:

ft = feet
in = inches

°F = degrees Fahrenheit
°C = degrees Celsius

Soil/Sediment Sampling Form

Client:	Alliance	**Location ID:**	SB-704	**Date:** 1/8/2025		**Work Order(s):**	January 2025 Soil Sampling
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa		**Area:**	Full Site	
Weather:	Cloudy 30			**Field Technician:**		Raymond Miller	
Depth Below Water Surface:	-	**Sample Equipment:**	Direct Push (DP)				
Latitude:			**Longitude:**				
Sample ID:	SB-704	**Sample Time:**	12:15	**Replicate Type / Replicate ID:**		/ / /	
Scope of work completed?	Yes						

Constituent Sampled	Comments	Container	Number	Preservative
Metals (SW6020)	Total Cr	Amber Glass	1	None
Metals (SW846 7196A)	Hex Cr	Amber Glass	1	None

From	To	Soil/Sediment/Sludge Description
0	5	(0.0-5.0 ft): SAND, very fine to medium, subround, little silt; soft, poorly sorted, dry to moist, 10YR 4/3 - brown.
5	10	(5.0-10.0 ft) ERROR: components do not sum to 100%

Lithology Photos

Photos

No photos available

Comments:

ft = feet
in = inches

°F = degrees Fahrenheit
°C = degrees Celsius

Soil/Sediment Sampling Form

Client:	Alliance	**Location ID:**	SB-705	**Date:**	1/8/2025	**Work Order(s):**	January 2025 Soil Sampling
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site		
Weather:	Cloudy 30			**Field Technician:**	Raymond Miller		
Depth Below Water Surface:	-	**Sample Equipment:**	Direct Push (DP)				
Latitude:			**Longitude:**				
Sample ID:	SB-705(0.0-0.5)	**Sample Time:**	11:55	**Replicate Type / Replicate ID:**	/ / /		
Scope of work completed?	Yes						

Constituent Sampled	Comments	Container	Number	Preservative
Metals (SW6020)	Total Cr	Amber Glass	1	None
Metals (SW846 7196A)	Hex Cr	Amber Glass	1	None

From	To	Soil/Sediment/Sludge Description
0	5	(0.0-5.0 ft): SAND, very fine to medium, subround, little silt; soft, poorly sorted, dry to moist, 10YR 4/3 - brown. NOTE: Yellow at 3.5-4.
5	10	(5.0-10.0 ft): SAND, very fine to medium, subround, little silt; soft, poorly sorted, dry to moist, 10YR 2/1 - black.

Lithology Photos

Photos

No photos available

Comments:

ft = feet
in = inches

°F = degrees Fahrenheit
°C = degrees Celsius

Soil/Sediment Sampling Form

Client:	Alliance	**Location ID:**	SB-706	**Date:**	1/8/2025	**Work Order(s):**	January 2025 Soil Sampling
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site		
Weather:	Cloudy 30			**Field Technician:**	Raymond Miller		
Depth Below Water Surface:	-	**Sample Equipment:**	Direct Push (DP)				
Latitude:			**Longitude:**				
Sample ID:	SB-706(7-7.5)	**Sample Time:**	11:35	**Replicate Type / Replicate ID:**	/ / /		
Scope of work completed?	Yes						

Constituent Sampled	Comments	Container	Number	Preservative
Metals (SW6020)	Total Cr	Amber Glass	1	None
Metals (SW846 7196A)	Hex Cr	Amber Glass	1	None

From	To	Soil/Sediment/Sludge Description
0	5	(0.0-5.0 ft): SAND, very fine to medium, subround, little silt, trace gravel, granules, subround; soft, well sorted, dry, 10YR 5/3 - brown.
5	10	(5.0-10.0 ft): SAND, very fine to medium, subround, some silt; soft, no dilatancy, poorly sorted, dry to moist, 10YR 2/1 - black.

Lithology Photos

Photos

No photos available

Comments:

ft = feet
in = inches

°F = degrees Fahrenheit
°C = degrees Celsius

Soil/Sediment Sampling Form

Client:	Alliance	**Location ID:**	SB-707	**Date:**	1/8/2025	**Work Order(s):**	January 2025 Soil Sampling
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site		
Weather:	Cloudy 30			**Field Technician:**	Raymond Miller		
Depth Below Water Surface:	-	**Sample Equipment:**	Direct Push (DP)				
Latitude:			**Longitude:**				
Sample ID:	SB-707(0.0-0.5)	**Sample Time:**	11:20	**Replicate Type / Replicate ID:**	/ / /		
Scope of work completed?	Yes						

Constituent Sampled	Comments	Container	Number	Preservative
Metals (SW6020)	Total Cr	Amber Glass	1	None
Metals (SW846 7196A)	Hex Cr	Amber Glass	1	None

From	To	Soil/Sediment/Sludge Description
0	5	(0.0-5.0 ft): SAND, very fine to medium, subround, some silt, trace gravel, granules, subround; soft, no dilatancy, poorly sorted, dry, 10YR 4/3 - brown.
5	10	(5.0-10.0 ft): SAND, very fine to medium, subround, little silt, trace gravel, granules, subround; soft, no dilatancy, poorly sorted, dry to moist, 10YR 2/1 - black.

Lithology Photos

Photos

No photos available

Comments:

ft = feet
in = inches

°F = degrees Fahrenheit
°C = degrees Celsius

Soil/Sediment Sampling Form

Client:	Alliance	**Location ID:**	SB-708	**Date:**	1/8/2025	**Work Order(s):**	January 2025 Soil Sampling
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site		
Weather:	Cloudy 30			**Field Technician:**	Raymond Miller		
Depth Below Water Surface:	-	**Sample Equipment:**	Direct Push (DP)				
Latitude:			**Longitude:**				
Sample ID:	SB-708(0.0-0.5)	**Sample Time:**	11:05	**Replicate Type / Replicate ID:**	/ / /		
Scope of work completed?	Yes						

Constituent Sampled	Comments	Container	Number	Preservative
Metals (SW6020)	Total Cr	Amber Glass	1	None
Metals (SW846 7196A)	Hex Cr	Amber Glass	1	None

From	To	Soil/Sediment/Sludge Description
0	5	(0.0-5.0 ft): SILT, trace medium sand, subround, trace clay; medium stiff, no dilatancy, dry, 10YR 2/1 - black.
5	10	(5.0-10.0 ft): SAND, very fine to medium, subround, little silt, little clay; soft, poorly sorted, dry to moist, 10YR 2/1 - black.

Lithology Photos

Photos

No photos available

Comments:

ft = feet
in = inches

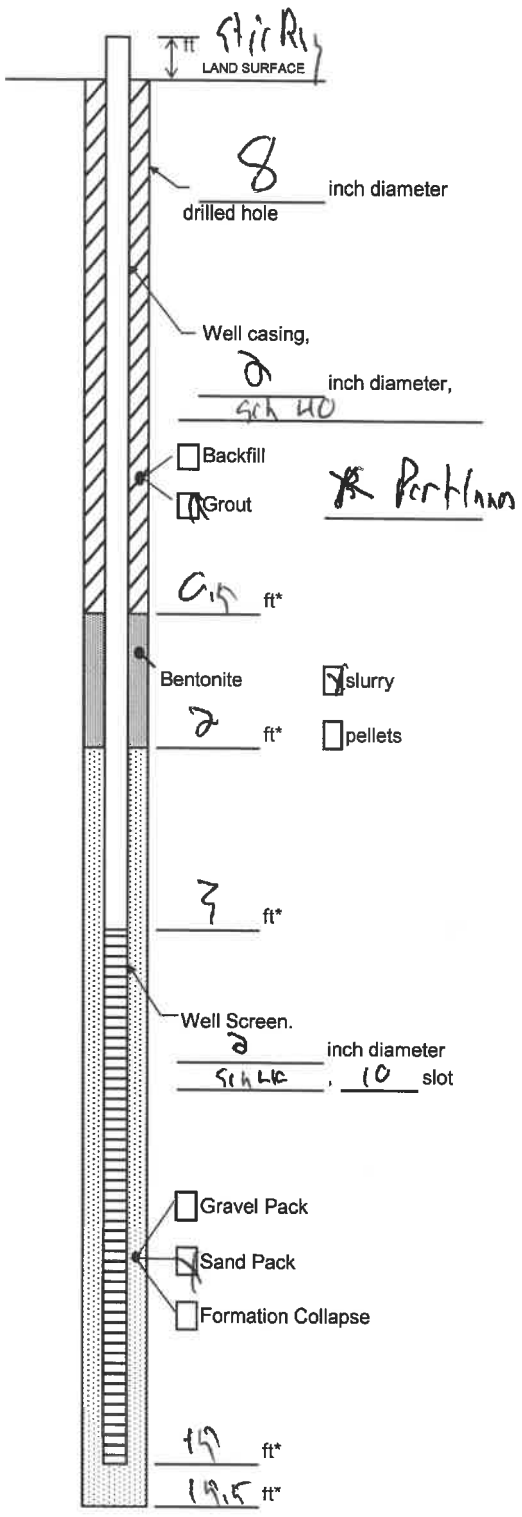
°F = degrees Fahrenheit
°C = degrees Celsius

Monitoring Well Construction Logs

ARCADIS

Well Construction Log

(Unconsolidated)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.
* Depth Below Land Surface

Project Alliance 91st St Well MW-7

Town/City Phila, Pa

County Philadelphia State Pa

Permit No.

Land-Surface (LS) Elevation and Datum:

_____ feet ☐ Surveyed ☐ Estimated

Installation Date(s) 7/16/22

Drilling Method HSA

Drilling Contractor Hawk

Drilling Fluid —

Development Technique(s) and Date(s)

Purge / Surge 7/17/22

Fluid Loss During Drilling — gallons

Water Removed During Development 40 gallons

Static Depth to Water 5.07 feet below M.P.

Pumping Depth to Water varies feet below M.P.

Pumping Duration 1 hours

Yield _____ gpm Date _____

Specific Capacity _____ gpm/ft

Well Purpose Monitoring

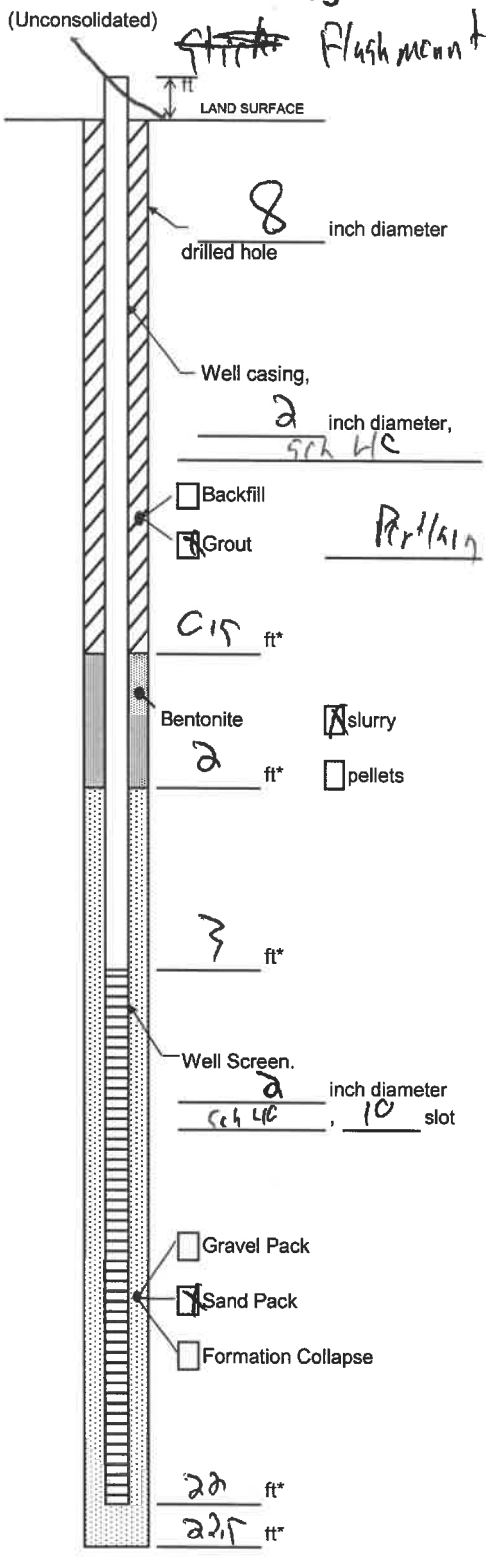
Remarks

Prepared by M. Hilinski

ARCADIS

Well Construction Log

(Unconsolidated)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.
* Depth Below Land Surface

Project Alliance 5/5t sipnet Well MW-8

Town/City ~~Phila~~ Phila, Pa

County Phila State Pa

Permit No.

Land-Surface (LS) Elevation and Datum:

feet ☐ Surveyed ☐ Estimated

Installation Date(s) 3/16/22

Drilling Method HSA

Drilling Contractor Hawk

Drilling Fluid Mud

Development Technique(s) and Date(s)

Purge / Surge 3/16/22

Fluid Loss During Drilling — gallons

Water Removed During Development 40 gallons

Static Depth to Water 4.52 feet below M.P.

Pumping Depth to Water Varies feet below M.P.

Pumping Duration 1 hours

Yield gpm Date

Specific Capacity gpm/ft

Well Purpose Monitoring

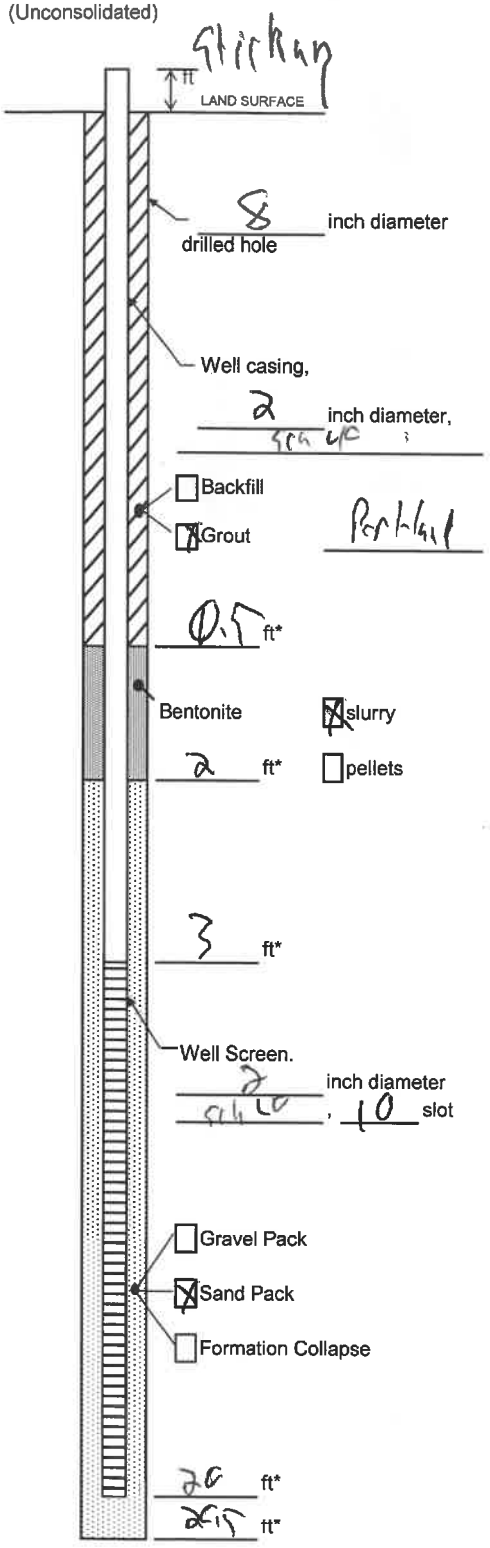
Remarks Flushmount

Prepared by M. Hilinski

ARCADIS

Well Construction Log

(Unconsolidated)



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.
* Depth Below Land Surface

Project Allignce 5/5ft st Well MW-9

Town/City Philly PA

County Philly State PA

Permit No.

Land-Surface (LS) Elevation and Datum:

_____ feet ☐ Surveyed

☐ Estimated

Installation Date(s) 3/16/22

Drilling Method HSA

Drilling Contractor Hawk

Drilling Fluid Mud

Development Technique(s) and Date(s)

Purge/Surge 3/16/22

Fluid Loss During Drilling — gallons

Water Removed During Development 50 gallons

Static Depth to Water 10.26 feet below M.P.

Pumping Depth to Water Varied feet below M.P.

Pumping Duration 1 hours

Yield _____ gpm Date _____

Specific Capacity _____ gpm/ft

Well Purpose Monitoring

Remarks

Prepared by M. Hilinski

Test Pit Logs

ARCADIS

Test Pit Log

Test Pit TP-101 Project/No. Alliance 51st St/ 30108678.07 Page 1 of 1

Site Location 1646 S 51st Stree, Philadelphia, Pa

Excavation Started 7/3/2024 Excavation Completed 7/3/2024

Total Depth Excavated 7 Feet Type of Sample N/A Sampling Depth(s) N/A

Length and Width of Excavation 5ft x 5ft Sampling Interval NA feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Contractor ARCO

Prepared By Rudy Plesmid

Test Pit Depth (feet below land surface) From	To	PID Reading (ppm)	Sample/Core Description
0	1.5	N/A	Brown sand/silty clay
1.5	3	N/A	Brown sandy silt
3	5	N/A	Black gravels/sands
5	7	N/A	Yellow silty sand

ARCADIS

Test Pit Log

Test Pit TP-102 Project/No. Alliance 51st St/ 30108678.07 Page 1 of 1

Site Location 1646 S 51st Stree, Philadelphia, Pa

Excavation Started 7/3/2024 Excavation Completed 7/3/2024

Total Depth Excavated 7 Feet Type of Sample N/A Sampling Depth(s) N/A

Length and Width of Excavation 5ft x 5ft Sampling Interval NA feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Contractor ARCO

Prepared By Rudy Plesmid

Test Pit Depth (feet below land surface) From	To	PID Reading (ppm)	Sample/Core Description
0	1.5	N/A	Brown sand/silty clay
1.5	3	N/A	Black silty clay
3	4	N/A	Brown silty clay
4	5.5	N/A	Yellow silty sand
5.5	7	N/A	Dark brown clay

ARCADIS

Test Pit Log

Test Pit TP-103 Project/No. Alliance 51st St/ 30108678.07 Page 1 of 1

Site Location 1646 S 51st Stree, Philadelphia, Pa

Excavation Started 7/3/2024 Excavation Completed 7/3/2024

Total Depth Excavated 8 Feet Type of Sample N/A Sampling Depth(s) N/A

Length and Width of Excavation 5ft x 5ft Sampling Interval NA feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Contractor ARCO

Prepared By Rudy Plesmid

Test Pit Depth (feet below land surface) From	To	PID Reading (ppm)	Sample/Core Description
0	2.5	N/A	Dark brown sitly sands
2.5	6	N/A	Spongy silty clay
6	7	N/A	White spongy clay
4	5.5	N/A	Yellow silty sand
7	8	N/A	Black silts

ARCADIS

Test Pit Log

Test Pit TP-104 Project/No. Alliance 51st St/ 30108678.07 Page 1 of 1

Site Location 1646 S 51st Stree, Philadelphia, Pa

Excavation Started 7/3/2024 Excavation Completed 7/3/2024

Total Depth Excavated 14 Feet Type of Sample N/A Sampling Depth(s) N/A

Length and Width of Excavation 5ft x 5ft Sampling Interval NA feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Contractor ARCO

Prepared By Rudy Plesmid

Test Pit Depth (feet below land surface) From	To	PID Reading (ppm)	Sample/Core Description
0	1.5	N/A	Dark brown silty sands
1.5	3	N/A	Red clay
3	14	N/A	Yellow silty sands with clay

ARCADIS

Test Pit Log

Test Pit TP-105 Project/No. Alliance 51st St/ 30108678.07 Page 1 of 1

Site Location 1646 S 51st Stree, Philadelphia, Pa

Excavation Started 7/3/2024 Excavation Completed 7/3/2024

Total Depth Excavated 17 Feet Type of Sample N/A Sampling Depth(s) N/A

Length and Width of Excavation 5ft x 5ft Sampling Interval NA feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Contractor ARCO

Prepared By Rudy Plesmid

Test Pit Depth (feet below land surface) From	To	PID Reading (ppm)	Sample/Core Description
0	3	N/A	Dark brown silty sands
3	17	N/A	Yellow silty sands with clay

Cross Sections

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F15-APP-D-SECTION LOCATION.dwg LAYOUT: D-1 SAVED: 1/23/2025 1:39 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 1/23/2025 1:40 PM BY: DAVIS, KATHI
XREFS:
REP-X-SITE
REP-X-RBL
IMAGES:
Arcadis Logo.PNG

LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- CHAIN LINK FENCE
- B — B' CROSS SECTION LINE

NOTES:

1. **SOURCE:** ©2024 Microsoft Corporation©Maxar ©CNES (2024) Distribution Airbus DS
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.
3. AERIAL IMAGE IS PRIOR TO TANK REMOVAL. ALL TANKS AND OTHER ABOVE-GRADE STRUCTURES HAVE BEEN REMOVED.

0 100' 200'

GRAPHIC SCALE

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

CROSS SECTION LOCATIONS

ARCADIS

FIGURE
D-1

A

A'

MW-8

MW-7
12.5' SOUTH

MW-2
29.3' NORTH

MW-1

EXISTING GRADE

WATER TABLE

BROWN FINE
TO MEDIUM
SILTY SAND

YELLOW -
GREENISH
FINE SILTY
SANDS

BROWN FINE
TO MEDIUM
SILTY SAND

BROWN FINE
TO MEDIUM
SILTY SAND

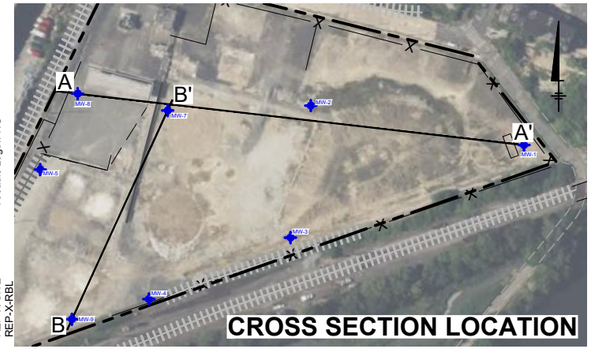
BROWN FINE
TO MEDIUM
SILTY SAND

VERTICAL SCALE: 1" = 5' (MEAN SEA LEVEL)

25
20
15
10
5
0
-5

0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00

HORIZONTAL SCALE: 1" = 60'



CROSS SECTION LOCATION

LEGEND:

- EXISTING GRADE (APPROXIMATE)
- WATER TABLE
- SILTY SAND
- YELLOW-GREENISH FINE SILTY SAND
- MW-8 — WELL ID
- WELL
- GROUNDWATER LEVEL
- SCREENED INTERVAL

0 5' 10'
SCALE: 1" = 5' VERTICAL

0 60' 120'
SCALE: 1" = 60' HORIZONTAL

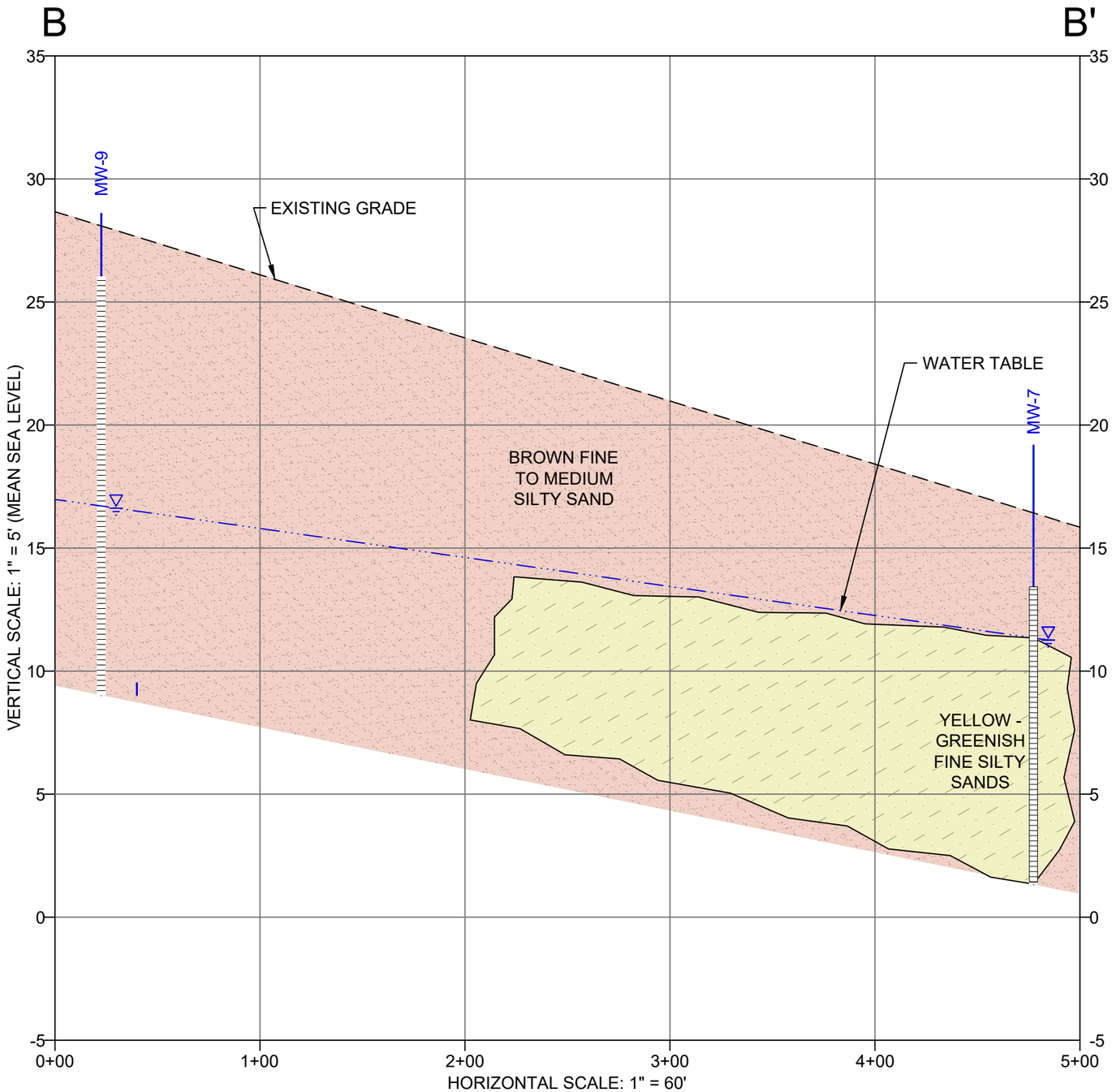
ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

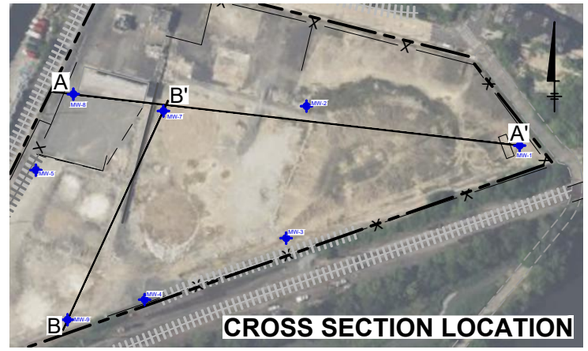
CROSS SECTION A - A'

ARCADIS

FIGURE
D-2

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F15-APP-D-SECTION LOCATION.dwg LAYOUT: D-2 SAVED: 1/23/2025 2:56 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---
PLOTSTYLETABLE: --- PLOTTED: 1/23/2025 2:57 PM BY: DAVIS, KATHI
XREFS: REP-X-SITE REP-X-RBL IMAGES: Arcadis Logo.PNG





LEGEND:

- EXISTING GRADE (APPROXIMATE)
- WATER TABLE
- SILTY SAND
- YELLOW-GREENISH FINE SILTY SAND
- MW-8 — WELL ID
- WELL
- GROUNDWATER LEVEL
- SCREENED INTERVAL

0 5' 10'
SCALE: 1" = 5' VERTICAL

0 60' 120'
SCALE: 1" = 60' HORIZONTAL

ALLIANCE 51ST STREET, LLC
1630-1646 SOUTH 51ST STREET
PHILADELPHIA, PENNSYLVANIA

CROSS SECTION B - B'

ARCADIS

FIGURE
D-3

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\2025\01-DWG\REP-F15-APP-D-SECTION LOCATION.dwg LAYOUT: D-3 SAVED: 1/23/2025 2:56 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 1/23/2025 2:57 PM BY: DAVIS, KATHI
XREFS:
REP-X-SITE
REP-X-RBL
IMAGES:
Arcadis Logo.PNG

Appendix E

Survey Data

DPK Consuling, LLC
200 Metroplex Drive Suite-285 Edison, New Jersey 08817
Telephone: 732.764.0100 Fax: 732.764.0990 Email: Jheiser@dpkconsulting.net

For: ARCADIS U.S. INC.
Site: 1646 South 51st Street. Philadelphia, Pensylvania

Date of Survey: April 1, 2022
Project #22-9519 **April 4, 2022**
Horizontal Datum: PA SOUTH PLANE COORDINATE GRID NAD 83
Vertical Datum: NAVD 88
BENCHMARK: PAPH PHILADELPHIA WDPT CORS ARP ELEV.:199.77
Additional Information:

	ELEVATIONS			COORDINATES			
MONITORING WELLS	GROUND	RIM	PVC	NORTHING	EASTING	LATITUDE (N)	LONGITUDE (W)
MW-1	12.51' DIRT	15.07'	14.19	229614	2681439	39°12'24.78"	66°46'41.29"
MW-2	15.11' DIRT	17.52'	16.44	229692	2681017	39°12'25.90"	66°46'46.52"
MW-3	16.70' DIRT	19.99'	19.33	229431	2680977	39°12'23.38"	66°46'47.31"
MW-4	27.51' GRAVEL	30.44'	28.76	229309	2680696	39°12'22.42"	66°46'50.97"
MW-5	26.70' GRAVEL	29.22'	29.02	229565	2680481	39°12'25.11"	66°46'53.40"
MW-7	16.43' DIRT	19.47'	19.17	229682	2680734	39°12'26.05"	66°46'50.09"
MW-8	23.18' PAVE	23.09'	22.74	229715	2680555	39°12'26.52"	66°46'52.30"
MW-9	29.03' GRAVEL	31.54'	31.36	229269	2680544	39°12'22.16"	66°46'52.93"

NOTE:
MW-2 was damaged and required repair. Alliance's surveyor resurveyed the RIM elevation at 18.24'

Appendix F

Available Disposal Documentation

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No. NJ062100038-1

2. Page 1 of 1

3. Generator's Name and Mailing Address PBF Logistics Product Terminal
1630 South 51st Street
Philadelphia, PA 19143

4. Generator's Phone (215) 203-4117

Site Address

5. Transporter 1 Company Name Miller Environmental Group

6. EPA ID # NJD986908085

A. State Transporter's ID

B. Transporter 1 Phone 800-394-8600

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Monarch Environmental
108 East Lake Road
HM Woodstown, NJ 08098

10. EPA ID # NJD011881174

E. State Facility's ID

F. Facility's Phone 856-394-9022

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
GENERATOR	a. Non-RCRA, Non-DOT, Liquids, N.O.S. (Oil Contaminated Water)	1	TT	2468	G
	b.				
	c.				
	d.				

G. Additional Descriptions for Materials Listed Above
NJ062100038

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name On behalf of PBF

Signature

Date: Month 01 Day 05 Year 21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Devin Brenner

Signature

Date: Month 01 Day 05 Year 21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name

Signature

Date: Month Day Year

BILL OF LADING

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No.

2. Page 1 of

3. Generator's Name and Mailing Address

PBF Logistics Products Terminals
PO Box 860
Gibbstown, NJ 08027

4. Generator's Phone ( ) 856-224-6477

Site Address

PBF
1630 South 51st Street
Philadelphia, Pennsylvania 19143

5. Transporter 1 Company Name

Miller Environmental Group, Inc.

6. EPA ID #

NYD986900855

A. State Transporter's ID

B. Transporter 1 Phone 800-394-6506

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

Monarch Environmental Recycling Inc
108 East Lake Road
Woodstown, NJ 08098

HM

10. EPA ID #

E. State Facility's ID

F. Facility's Phone 856-769-9022

GENERATOR

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.	NON-RCRA, NON-DOT REGULATED LIQUIDS, N.O.S./OILY WASTE WATER)		T	1993	
b.					
c.					
d.					

G. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information

TJ06210028

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date Month	Day	Year
		1	6	21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Devin Brimer		1	06	21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

BILL OF LADING

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No.

2. Page 1 of

3. Generator's Name and Mailing Address

PBF Logistics Products Terminals
PO Box 860
Gibbstown, NJ 08027
4. Generator's Phone ( ) 856-224-5477

Site Address

PBF
1630 South 51st Street
Philadelphia, Pennsylvania 19143

5. Transporter 1 Company Name

Miller Environmental Group, Inc

6. EPA ID # NYD986900806

A. State Transporter's ID

B. Transporter 1 Phone 908-354-2606

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

Monarch Environmental Recycling Inc
103 East Lake Road
Woodstown, NJ 08098

HM

10. EPA ID # NJD011881174

E. State Facility's ID

F. Facility's Phone 856-769-9022

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
TA	a. NON-RCRA, NON-DOT REGULATED LIQUIDS, N.O.S./OILY WASTE WATER	1	T	1 275 gal	
	b.				
	c.				
	d.				

GENERATOR

G. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information

NJ06219022

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date Month	Day	Year
MAKSIM I. RANOV	Maksim I. Ranov	1	2	21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Dave Brown		01	02	20

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

BILL OF LADING

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC

24-Hour Emergency Phone Number
1-800-843-8265

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No. NJ0621002 8

2. Page 1 of

3. Generator's Name and Mailing Address
PBF
PO Box 416
Glibbstown NJ 08027

4. Generator's Phone ( )

Site Address
PBF
1630 South St
Philadelphia PA

5. Transporter 1 Company Name
Mill. Environmental Group

6. EPA ID # NYD986905043

A. State Transporter's ID

B. Transporter 1 Phone 800-342-1626

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
PBF
Girard Point Ave
Philadelphia PA

10. EPA ID #

E. State Facility's ID

F. Facility's Phone 951-709-7002

HM

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
GENERATOR	a. NON RCRA / NON DOT Waste Oil	x1	TT	2752 G	
	b.				
	c.				
	d.				

G. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date Month	Day	Year
MAKSIM I. PANOV	Maksim I. Panov	1	8	21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
NCA [illegible]		1	8	21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

BILL OF LADING

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No.

2. Page 1 of

3. Generator's Name and Mailing Address

PBF Logistics Products Terminal
PO Box 250
Gibbstown, NJ 08027

4. Generator's Phone (856) 224-6477

Site Address

PGT
1630 South 51st Street
Philadelphia, Pennsylvania 19142

5. Transporter 1 Company Name

Miller Environmental Group, Inc

6. EPA ID #

NYTRS00[illegible]

A. State Transporter's ID

B. Transporter 1 Phone 330.394.8506

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

Monarch Environmental Recycling Inc
196 East Lake Road
Woodstown, NJ 08098

HM

10. EPA ID #

NJD001981174

E. State Facility's ID

F. Facility's Phone

856-769-9020

GENERATOR

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.	NON RCRA, NON-DOT REGULATED LIQUIDS, N.O.S. (OILY WASTE WATER)			T 2752	
b.					
c.					
d.					

G. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information

NJ05210023

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date Month	Day	Year
MAKSIM I. PANOV	Maksim I. Panov	1	8	21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Devin Brunner		1	8	21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

BILL OF LADING

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THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. _____

Carrier Miller Environmental Group SCAC _____ Carrier's No. NJ06210349-1

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at 105 Richwood Ave Deptford NJ 08096, date 10 Aug 21 from _____

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:
Consignee Miller Environmental
Street 102 E Lake
Destination Woodstown NJ Zip

FROM: PBF Logistics Product Terminal
Shipper
Street 1400 5th Street
Origin Philadelphia PA Zip 19143

Route Josh
Delivering Carrier Miller Environmental
Vehicle Number 5505
U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT	X	1993	UN 1993 Flammable Liquid N.O.S (Gasoline) Class 3, PG II	3	II	350	G	

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $

TOTAL CHARGES: $

COD FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES: ☑ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED 1993

PLACARDS SUPPLIED ☐ BY SHIPPER ☐ BY CARRIER

DRIVER'S SIGNATURE:

SHIPPER: PBF Logistics Product Terminal LLC
PER: ✓ DATE: 10 Aug 21

CARRIER: Miller Environmental
PER: DATE: 10 Aug 21

EMERGENCY RESPONSE TELEPHONE NUMBER: 856-224-1100

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER: Job 704

29-BLS-A4 968 (Rev. 9/10)

4

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No. NJ06210431-1

2. Page 1 of

3. Generator's Name and Mailing Address
PBF Logistics Products Terminals, LLC
PO Box 850
Gibbstown, NJ 08027

4. Generator's Phone ( )

Site Address
51st Street Terminal
1630 South 51st Street
Philadelphia, PA 19143

5. Transporter 1 Company Name
Miller Environmental Group, Inc.

6. EPA ID # NYD986908085

A. State Transporter's ID

B. Transporter 1 Phone 856-394-9506

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Miller Environmental Group Inc.
108 East Lake Road
Woodstown, NJ 08098

HM

10. EPA ID #

E. State Facility's ID

F. Facility's Phone 856-769-9022

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
X	a. UN 1993 Flammable liquids n.o.s. (Transmix), 3, PG II	1	TT	2746	G
	b.				
	c.				
	d.				

GENERATOR

G. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information
Line 1. Approval #: N/A
Job #: NJ06210428
PH1710

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Dan Burke	Dan Burke	10 / 4 / 21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
Nick Pantore		10 / 4 / 21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)

BILL OF LADING

Please print or type

BILL OF LADING

Generator EPA ID #

1. Document No. NJ06210392-1

2. Page 1 of

3. Generator's Name and Mailing Address
PSP Logistics Products Terminals, LLC
PO Box 860
Gibbstown, NJ 08027

4. Generator's Phone ( )

Site Address
51st Street Terminal
1630 South 51st Street
Philadelphia, PA 19143

5. Transporter 1 Company Name
Miller Environmental Group, Inc.

6. EPA ID # NYD986908085

A. State Transporter's ID

B. Transporter 1 Phone 800-351-5606

7. Transporter 2 Company Name

8. EPA ID #

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Miller Environmental Group Inc.
108 East Lake Road
Woodstown, NJ 08098

HM

10. EPA ID #

E. State Facility's ID

F. Facility's Phone 856-769-9022

GENERATOR

	11. Shipping Name	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.	NON HAZARDOUS SOLIDS, NON DOT/NON RCRA	1	CM	20	Y
b.					
c.					
d.					

G. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information
Line 1. Approval #: 8543
Job #: NJ06210392
PHI1720

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements.

Printed/Typed Name: Matt Dreier

Signature

Date: Month 10 Day 11 Year 21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John Daughtry

Signature

Date: Month 10 Day 11 Year 21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name

Signature

Date: Month Day Year

BILL OF LADING

Appendix G

Laboratory Analytical Reports

Soil

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-50281-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/13/2021 1:14:33 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Amek Carter
Project Manager
8/13/2021 1:14:33 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
FH	MS and/or MSD recovery above control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-50281-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-50281-1

Receipt
The samples were received on 8/6/2021 3:23 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6°C and 1.9°C

Receipt Exceptions
The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC):

Entered based on other samples and received containers.

Pipe 77 (2) (410-50281-7)

The following samples were listed on the Chain of Custody (COC); however, no samples were received:

Pipe 60 (2)

DUP-3 (410-50281-1), 7551-P5 (3) (410-50281-2), Pipe 75 (2) (410-50281-3), 7551-P1 (3) (410-50281-4), Pipe 87 (2) (410-50281-5), 7551-P2 (3) (410-50281-6), Pipe 77 (2) (410-50281-7), Pipe 76 (2) (410-50281-8), 7551-P3 (3) (410-50281-9), Trip Blank (410-50281-10), Pipe 53 (2) (410-50281-11), 1044-P4 (3) (410-50281-12), Pipe 55 (2) (410-50281-13), Pipe 78 (2) (410-50281-14), Pipe 79 (2) (410-50281-15), 7551-P7 (3) (410-50281-16), Pipe 82 (2) (410-50281-17), 7551-P6 (3) (410-50281-18), Pipe 81 (2) (410-50281-19), Pipe 83 (2) (410-50281-20), Pipe 80 (2) (410-50281-21), Pipe 50 (2) (410-50281-22), Pipe 49 (2) (410-50281-23), Pipe 45 (2) (410-50281-24), Pipe 47 (2) (410-50281-25), Pipe 46 (2) (410-50281-26), Pipe 48 (2) (410-50281-27), 1043-P5 (3) (410-50281-28), 1043-P4 (3) (410-50281-29), 1043-P1 (3) (410-50281-30), Pipe 51 (2) (410-50281-31) and Pipe 52 (2) (410-50281-32).

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: Pipe 75 (2) (410-50281-3), Pipe 87 (2) (410-50281-5), Pipe 55 (2) (410-50281-13), 7551-P7 (3) (410-50281-16), Pipe 45 (2) (410-50281-24), Pipe 47 (2) (410-50281-25) and Pipe 46 (2) (410-50281-26). Elevated reporting limits (RLs) are provided.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: Pipe 53 (2) (410-50281-11). The sample(s) was re-analyzed and ISTD response was outside control limits.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: Pipe 51 (2) (410-50281-31). The sample(s) was re-extracted and/or re-analyzed and ISTD response was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: DUP-3 — Lab Sample ID: 410-50281-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	4.8	J	6.1	0.49	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.5	J	6.1	0.61	ug/Kg	1	☼	8260C	Total/NA
Toluene	12		6.1	0.73	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	14		12	1.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	4.3	J	6.1	0.61	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	3.6	J	6.1	2.4	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	7.3		6.1	0.61	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	0.54	J	6.1	0.49	ug/Kg	1	☼	8260C	Total/NA
Anthracene	7.0	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	19	FH F2	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	22		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	25		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	24		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	20	F2	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	4.9	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	26	FH F2	19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	34	FH F2	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	26		1.6	0.63	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-P5 (3) — Lab Sample ID: 410-50281-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	8.0	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	11	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	15	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	9.8	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	11	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	8.1	J	18	4.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	16	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Lead	25		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 75 (2) — Lab Sample ID: 410-50281-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	44	J	320	25	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	100	J	320	32	ug/Kg	50	☼	8260C	Total/NA
Toluene	180	J	320	38	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	240	J	640	89	ug/Kg	50	☼	8260C	Total/NA
Benzene	39	J	320	32	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	65	J	320	32	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	17	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	17	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	27		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	30		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	18	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	15	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	48		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	190		1.6	0.62	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: 7551-P1 (3) — Lab Sample ID: 410-50281-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	3.3	J	7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.9	J	7.5	0.90	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.1	J	15	2.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.1	J	7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	5.8	J	7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
Anthracene	99		56	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	330		56	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	260		56	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	370		56	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	200		56	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	290		56	11	ug/Kg	1	☼	8270D	Total/NA
Fluorene	31	J	56	11	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	450		56	13	ug/Kg	1	☼	8270D	Total/NA
Pyrene	710		56	11	ug/Kg	1	☼	8270D	Total/NA
Lead	42		2.1	0.86	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 87 (2) — Lab Sample ID: 410-50281-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	100	J	330	26	ug/Kg	50	☼	8260C	Total/NA
Toluene	79	J	330	40	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	120	J	660	93	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	100	J	330	33	ug/Kg	50	☼	8260C	Total/NA
Anthracene	250		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	570		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	640		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	730		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	590		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	510		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	180		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	260		20	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1100		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	720		1.4	0.55	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-P2 (3) — Lab Sample ID: 410-50281-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	2900		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	4300		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	3200		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	3500		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1800		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	3800		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	2200		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene - DL	12000		110	27	ug/Kg	5	☼	8270D	Total/NA
Pyrene - DL	7800		110	23	ug/Kg	5	☼	8270D	Total/NA
Lead	37		1.8	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 77 (2) — Lab Sample ID: 410-50281-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1400		360	29	ug/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 77 (2) (Continued) — Lab Sample ID: 410-50281-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	8100		360	36	ug/Kg	50	☼	8260C	Total/NA
Toluene	100	J	360	44	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	3500		730	100	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	2000		360	150	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	19000		360	36	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	1800		360	29	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	190		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	270		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	200		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	270		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	370		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	900		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	870		22	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	560		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	210		1.8	0.71	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 76 (2) — Lab Sample ID: 410-50281-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	1.1	J	4.8	0.48	ug/Kg	1	☼	8260C	Total/NA
Anthracene	14	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	83		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	120		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	150		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	140		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	5.6	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	76		18	4.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	180		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Lead	270		1.6	0.62	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-P3 (3) — Lab Sample ID: 410-50281-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	0.71	J	6.3	0.63	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.84	J	6.3	0.75	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.85	J	6.3	0.63	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.77	J	6.3	0.63	ug/Kg	1	☼	8260C	Total/NA
Anthracene	65		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	220		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	230		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	140		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	210		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	32		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	260		23	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	340		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	44		1.9	0.76	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-50281-10

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: Pipe 53 (2) — Lab Sample ID: 410-50281-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	170	J	220	45	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	220		220	45	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	230		220	45	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	160	J	220	45	ug/Kg	5	☼	8270D	Total/NA
Chrysene	170	J	220	45	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	56	J	220	54	ug/Kg	5	☼	8270D	Total/NA
Pyrene	220		220	45	ug/Kg	5	☼	8270D	Total/NA
Lead	83		1.4	0.58	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1044-P4 (3) — Lab Sample ID: 410-50281-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3	J	6.7	0.67	ug/Kg	1	☼	8260C	Total/NA
Anthracene	64		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	120		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	95		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	120		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	77		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	120		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	37		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	99		23	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	150		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	2100		1.9	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 55 (2) — Lab Sample ID: 410-50281-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	110		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	510		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	460		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	580		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	330		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	580		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	92		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1100		23	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	930		23	4.7	ug/Kg	1	☼	8270D	Total/NA
Lead	750	F2	1.8	0.73	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 78 (2) — Lab Sample ID: 410-50281-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	140	J	550	44	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1100		550	55	ug/Kg	50	☼	8260C	Total/NA
Toluene	110	J	550	65	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	470	J	1100	150	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	290	J	550	220	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2200		550	55	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	180	J	550	44	ug/Kg	50	☼	8260C	Total/NA
Anthracene	31		28	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	22	J	28	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	21	J	28	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	40		28	5.5	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 78 (2) (Continued)

Lab Sample ID: 410-50281-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	56		28	5.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	30		28	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	64		28	6.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	54		28	5.5	ug/Kg	1	☼	8270D	Total/NA
Lead	94		1.9	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 79 (2)

Lab Sample ID: 410-50281-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1700		250	20	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	39	J	250	25	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	110	J	510	71	ug/Kg	50	☼	8260C	Total/NA
Benzene	26	J	250	25	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	820		250	100	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	1000		250	20	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	27000		2500	250	ug/Kg	500	☼	8260C	Total/NA
Anthracene	35		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	62		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	47		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	44		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	41		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	80		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	130		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	190		18	4.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	100		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Lead	14		1.3	0.51	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-P7 (3)

Lab Sample ID: 410-50281-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	42	J	340	27	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	180	J	340	34	ug/Kg	50	☼	8260C	Total/NA
Toluene	220	J	340	41	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	300	J	680	95	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	420		340	34	ug/Kg	50	☼	8260C	Total/NA
Anthracene	18	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	39		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	48		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	95		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	34		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	35		20	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	44		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	18		1.6	0.65	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 82 (2)

Lab Sample ID: 410-50281-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.0	J	7.3	0.58	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.73	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
Toluene	6.8	J	7.3	0.87	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	5.9	J	15	2.0	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 82 (2) (Continued)

Lab Sample ID: 410-50281-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.2	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.2	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
Anthracene	110		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	360		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	390		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	510		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	390		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	390		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	32		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	450		24	5.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	570		24	4.7	ug/Kg	1	☼	8270D	Total/NA
Lead	200		1.9	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-P6 (3)

Lab Sample ID: 410-50281-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	4100		460	37	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	15000		460	46	ug/Kg	50	☼	8260C	Total/NA
Toluene	8400		460	55	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	31000		920	130	ug/Kg	50	☼	8260C	Total/NA
Benzene	720		460	46	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	1100		460	180	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	2000		460	37	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	51000		4600	460	ug/Kg	500	☼	8260C	Total/NA
Anthracene	21	J	25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	17	J	25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	29		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	43		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	63		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	31		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	74		25	6.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	36		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Lead	21		2.3	0.90	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 81 (2)

Lab Sample ID: 410-50281-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.4	J	5.6	0.44	ug/Kg	1	☼	8260C	Total/NA
1,2-Dichloroethane	1.3	J	5.6	0.67	ug/Kg	1	☼	8260C	Total/NA
Toluene	31		5.6	0.67	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	7.3	J	11	1.6	ug/Kg	1	☼	8260C	Total/NA
Benzene	12		5.6	0.56	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.1	J	5.6	0.56	ug/Kg	1	☼	8260C	Total/NA
Anthracene	48		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	120		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	330		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	370		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	430		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	130		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	12	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	97		20	4.9	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 81 (2) (Continued)

Lab Sample ID: 410-50281-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	140		20	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	500		1.4	0.56	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 83 (2)

Lab Sample ID: 410-50281-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	5.5		5.4	0.65	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.8	J	11	1.5	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.8	J	5.4	0.54	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.58	J	5.4	0.54	ug/Kg	1	☼	8260C	Total/NA
Anthracene	55		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	350		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	330		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	490		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	300		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	370		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	15	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	190		20	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	560		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	76		1.2	0.50	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 80 (2)

Lab Sample ID: 410-50281-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	3.8	J	5.9	0.47	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.4	J	5.9	0.59	ug/Kg	1	☼	8260C	Total/NA
Toluene	11		5.9	0.71	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	12		12	1.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.8	J	5.9	0.59	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	5.7	J	5.9	0.59	ug/Kg	1	☼	8260C	Total/NA
Anthracene	33		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	57		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	94		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	100		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	110		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	65		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	21		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	110		19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Lead	30		1.4	0.56	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 50 (2)

Lab Sample ID: 410-50281-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	9.8	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.2	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	9.9	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	11	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	9.7	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	10	J	21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	13	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	320		1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: Pipe 49 (2) — Lab Sample ID: 410-50281-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1	J	7.0	0.70	ug/Kg	1	☼	8260C	Total/NA
Anthracene	13	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	19	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	20		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	27		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	22		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	25		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	52		20	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	50		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	78		1.4	0.55	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 45 (2) — Lab Sample ID: 410-50281-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	75	J	470	47	ug/Kg	50	☼	8260C	Total/NA
Anthracene	22		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	6.7	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.7	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	9.3	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	11	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	32		20	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	15	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	330		1.7	0.68	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 47 (2) — Lab Sample ID: 410-50281-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	80	J	190	38	ug/Kg	10	☼	8270D	Total/NA
Lead	69		1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 46 (2) — Lab Sample ID: 410-50281-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	130	J	400	81	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	370	J	400	81	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	380	J	400	81	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	440		400	81	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	340	J	400	81	ug/Kg	10	☼	8270D	Total/NA
Chrysene	460		400	81	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	560		400	97	ug/Kg	10	☼	8270D	Total/NA
Pyrene	700		400	81	ug/Kg	10	☼	8270D	Total/NA
Lead	600		1.8	0.70	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 48 (2) — Lab Sample ID: 410-50281-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.65	J	7.9	0.64	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.3	J	7.9	0.95	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.5	J	16	2.2	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.93	J	7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.87	J	7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	19		19	3.9	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 48 (2) (Continued) — Lab Sample ID: 410-50281-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	15	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	27		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	45		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	79		19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	74		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	15		1.3	0.54	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1043-P5 (3) — Lab Sample ID: 410-50281-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3	J	9.5	0.95	ug/Kg	1	☼	8260C	Total/NA
Anthracene	110		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	290		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	300		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	150		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	280		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	43		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	470		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	470		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	560	F2	1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1043-P4 (3) — Lab Sample ID: 410-50281-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.6	J	8.7	0.87	ug/Kg	1	☼	8260C	Total/NA
Anthracene	420		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	3100		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2700		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2800		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1700		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	2600		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	54		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	820		21	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	4100		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Lead	880		1.5	0.61	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1043-P1 (3) — Lab Sample ID: 410-50281-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.6	J	8.2	0.82	ug/Kg	1	☼	8260C	Total/NA
Anthracene	66		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	210		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	160		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	110		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	200		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	28		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	280		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	350		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	87		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: Pipe 51 (2) — Lab Sample ID: 410-50281-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5	J	9.7	0.97	ug/Kg	1	☼	8260C	Total/NA
Anthracene	80	J	100	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	710		100	21	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	270		100	25	ug/Kg	1	☼	8270D	Total/NA
Pyrene	100		100	21	ug/Kg	1	☼	8270D	Total/NA
Lead	460		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 52 (2) — Lab Sample ID: 410-50281-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	18	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	28		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	34		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	40		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	64		23	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	39		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	110		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-3

Lab Sample ID: 410-50281-1

Date Collected: 08/06/21 00:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 85.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.8	J	6.1	0.49	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
1,2-Dichloroethane	ND		6.1	0.73	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
1,3,5-Trimethylbenzene	1.5	J	6.1	0.61	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
Toluene	12		6.1	0.73	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
Xylenes, Total	14		12	1.7	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
Methyl tertiary butyl ether	ND		6.1	0.61	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
Benzene	4.3	J	6.1	0.61	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
Naphthalene	3.6	J	6.1	2.4	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
1,2,4-Trimethylbenzene	7.3		6.1	0.61	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
Isopropylbenzene	0.54	J	6.1	0.49	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1
1,2-Dibromoethane	ND		6.1	0.49	ug/Kg	☼	08/08/21 12:04	08/10/21 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/08/21 12:04*	*08/10/21 13:13*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/08/21 12:04*	*08/10/21 13:13*	*1*
Dibromofluoromethane (Surr)	*97*		*50 - 141*	*08/08/21 12:04*	*08/10/21 13:13*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/08/21 12:04*	*08/10/21 13:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	7.0	J	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Benzo[a]anthracene	19	FH F2	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Benzo[a]pyrene	22		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Benzo[b]fluoranthene	25		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Benzo[g,h,i]perylene	24		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Chrysene	20	F2	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Fluorene	4.9	J	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Phenanthrene	26	FH F2	19	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1
Pyrene	34	FH F2	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/10/21 09:37*	*08/10/21 16:36*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/10/21 09:37*	*08/10/21 16:36*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/10/21 09:37*	*08/10/21 16:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	26		1.6	0.63	mg/Kg	☼	08/09/21 03:32	08/11/21 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.6		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 7551-P5 (3)

Lab Sample ID: 410-50281-2

Date Collected: 08/06/21 10:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 93.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.5	0.44	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
1,2-Dichloroethane	ND		5.5	0.66	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1

Client Sample ID: 7551-P5 (3)

Lab Sample ID: 410-50281-2

Date Collected: 08/06/21 10:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 93.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
Toluene	ND		5.5	0.66	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
Methyl tertiary butyl ether	ND		5.5	0.55	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
Benzene	ND		5.5	0.55	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
Naphthalene	ND		5.5	2.2	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
1,2,4-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
Isopropylbenzene	ND		5.5	0.44	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1
1,2-Dibromoethane	ND		5.5	0.44	ug/Kg	☼	08/08/21 12:04	08/10/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*54 - 135*	*08/08/21 12:04*	*08/10/21 17:23*	*1*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*	*08/08/21 12:04*	*08/10/21 17:23*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 141*	*08/08/21 12:04*	*08/10/21 17:23*	*1*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/08/21 12:04*	*08/10/21 17:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Benzo[a]anthracene	**8.0**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Benzo[a]pyrene	**11**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Benzo[b]fluoranthene	**15**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Benzo[g,h,i]perylene	**9.8**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Chrysene	**11**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Fluorene	ND		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Phenanthrene	**8.1**	**J**	18	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1
Pyrene	**16**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*39 - 100*	*08/10/21 09:37*	*08/10/21 17:44*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/10/21 09:37*	*08/10/21 17:44*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*08/10/21 09:37*	*08/10/21 17:44*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**25**		1.6	0.64	mg/Kg	☼	08/09/21 03:32	08/11/21 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.6**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 75 (2)

Lab Sample ID: 410-50281-3

Date Collected: 08/06/21 11:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 80.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**44**	**J**	320	25	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
1,2-Dichloroethane	ND		320	38	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
1,3,5-Trimethylbenzene	**100**	**J**	320	32	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
Toluene	**180**	**J**	320	38	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50

Client Sample ID: Pipe 75 (2)

Lab Sample ID: 410-50281-3

Date Collected: 08/06/21 11:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 80.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**240**	**J**	640	89	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
Methyl tertiary butyl ether	ND		320	32	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
Benzene	**39**	**J**	320	32	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
Naphthalene	ND		320	130	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
1,2,4-Trimethylbenzene	**65**	**J**	320	32	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
Isopropylbenzene	ND		320	25	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50
1,2-Dibromoethane	ND		320	25	ug/Kg	☼	08/08/21 12:23	08/11/21 15:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*54 - 135*	*08/08/21 12:23*	*08/11/21 15:08*	*50*
4-Bromofluorobenzene (Surr)	*73*		*50 - 131*	*08/08/21 12:23*	*08/11/21 15:08*	*50*
Dibromofluoromethane (Surr)	*75*		*50 - 141*	*08/08/21 12:23*	*08/11/21 15:08*	*50*
Toluene-d8 (Surr)	*71*		*52 - 141*	*08/08/21 12:23*	*08/11/21 15:08*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Benzo[a]anthracene	**17**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Benzo[a]pyrene	**17**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Benzo[b]fluoranthene	**27**		21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Benzo[g,h,i]perylene	**30**		21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Chrysene	**18**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Fluorene	**15**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Phenanthrene	ND		21	4.9	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1
Pyrene	**48**		21	4.1	ug/Kg	☼	08/10/21 09:37	08/10/21 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/10/21 09:37*	*08/10/21 18:06*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/10/21 09:37*	*08/10/21 18:06*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/10/21 09:37*	*08/10/21 18:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**190**		1.6	0.62	mg/Kg	☼	08/09/21 03:32	08/11/21 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.3**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 7551-P1 (3)

Lab Sample ID: 410-50281-4

Date Collected: 08/06/21 11:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 58.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.5	0.60	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
1,2-Dichloroethane	ND		7.5	0.90	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
1,3,5-Trimethylbenzene	**3.3**	**J**	7.5	0.75	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
Toluene	**1.9**	**J**	7.5	0.90	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
Xylenes, Total	**3.1**	**J**	15	2.1	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
Methyl tertiary butyl ether	ND		7.5	0.75	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1

Client Sample ID: 7551-P1 (3)

Lab Sample ID: 410-50281-4

Date Collected: 08/06/21 11:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 58.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.1**	**J**	7.5	0.75	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
Naphthalene	ND		7.5	3.0	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
1,2,4-Trimethylbenzene	**5.8**	**J**	7.5	0.75	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
Isopropylbenzene	ND		7.5	0.60	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1
1,2-Dibromoethane	ND		7.5	0.60	ug/Kg	☼	08/08/21 12:27	08/10/21 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/08/21 12:27*	*08/10/21 13:36*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/08/21 12:27*	*08/10/21 13:36*	*1*
Dibromofluoromethane (Surr)	*99*		*50 - 141*	*08/08/21 12:27*	*08/10/21 13:36*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/08/21 12:27*	*08/10/21 13:36*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**99**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Benzo[a]anthracene	**330**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Benzo[a]pyrene	**260**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Benzo[b]fluoranthene	**370**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Benzo[g,h,i]perylene	**200**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Chrysene	**290**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Fluorene	**31**	**J**	56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Phenanthrene	**450**		56	13	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1
Pyrene	**710**		56	11	ug/Kg	☼	08/10/21 09:37	08/10/21 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*08/10/21 09:37*	*08/10/21 18:29*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/10/21 09:37*	*08/10/21 18:29*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/10/21 09:37*	*08/10/21 18:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**42**		2.1	0.86	mg/Kg	☼	08/09/21 03:32	08/11/21 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**41.1**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 87 (2)

Lab Sample ID: 410-50281-5

Date Collected: 08/06/21 11:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 83.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**100**	**J**	330	26	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
1,2-Dichloroethane	ND		330	40	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
1,3,5-Trimethylbenzene	ND		330	33	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
Toluene	**79**	**J**	330	40	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
Xylenes, Total	**120**	**J**	660	93	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
Methyl tertiary butyl ether	ND		330	33	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
Benzene	ND		330	33	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
Naphthalene	ND		330	130	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50

Client Sample ID: Pipe 87 (2)

Lab Sample ID: 410-50281-5

Date Collected: 08/06/21 11:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 83.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	100	J	330	33	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
Isopropylbenzene	ND		330	26	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50
1,2-Dibromoethane	ND		330	26	ug/Kg	☼	08/08/21 12:23	08/11/21 15:28	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*54 - 135*	*08/08/21 12:23*	*08/11/21 15:28*	*50*
4-Bromofluorobenzene (Surr)	*76*		*50 - 131*	*08/08/21 12:23*	*08/11/21 15:28*	*50*
Dibromofluoromethane (Surr)	*78*		*50 - 141*	*08/08/21 12:23*	*08/11/21 15:28*	*50*
Toluene-d8 (Surr)	*75*		*52 - 141*	*08/08/21 12:23*	*08/11/21 15:28*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	250		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Benzo[a]anthracene	570		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Benzo[a]pyrene	640		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Benzo[b]fluoranthene	730		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Benzo[g,h,i]perylene	590		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Chrysene	510		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Fluorene	180		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Phenanthrene	260		20	4.8	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1
Pyrene	1100		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/10/21 09:37*	*08/10/21 18:52*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/10/21 09:37*	*08/10/21 18:52*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/10/21 09:37*	*08/10/21 18:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	720		1.4	0.55	mg/Kg	☼	08/09/21 03:32	08/11/21 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.6		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 7551-P2 (3)

Lab Sample ID: 410-50281-6

Date Collected: 08/06/21 11:45
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 72.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.8	0.54	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
1,2-Dichloroethane	ND		6.8	0.82	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
1,3,5-Trimethylbenzene	ND		6.8	0.68	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
Toluene	ND		6.8	0.82	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
Xylenes, Total	ND		14	1.9	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
Methyl tertiary butyl ether	ND		6.8	0.68	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
Benzene	ND		6.8	0.68	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
Naphthalene	ND		6.8	2.7	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
1,2,4-Trimethylbenzene	ND		6.8	0.68	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1
Isopropylbenzene	ND		6.8	0.54	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1

Client Sample ID: 7551-P2 (3)

Lab Sample ID: 410-50281-6

Date Collected: 08/06/21 11:45
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 72.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		6.8	0.54	ug/Kg	☼	08/08/21 12:28	08/10/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*	*08/08/21 12:28*	*08/10/21 16:38*	*1*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*	*08/08/21 12:28*	*08/10/21 16:38*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/08/21 12:28*	*08/10/21 16:38*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/08/21 12:28*	*08/10/21 16:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**2900**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1
Benzo[a]anthracene	**4300**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1
Benzo[a]pyrene	**3200**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1
Benzo[b]fluoranthene	**3500**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1
Benzo[g,h,i]perylene	**1800**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1
Chrysene	**3800**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1
Fluorene	**2200**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*08/10/21 09:37*	*08/10/21 19:15*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/10/21 09:37*	*08/10/21 19:15*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/10/21 09:37*	*08/10/21 19:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	**12000**		110	27	ug/Kg	☼	08/10/21 09:37	08/11/21 08:54	5
Pyrene	**7800**		110	23	ug/Kg	☼	08/10/21 09:37	08/11/21 08:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/10/21 09:37*	*08/11/21 08:54*	*5*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/10/21 09:37*	*08/11/21 08:54*	*5*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/10/21 09:37*	*08/11/21 08:54*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**37**		1.8	0.74	mg/Kg	☼	08/09/21 03:39	08/12/21 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.1**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 77 (2)

Lab Sample ID: 410-50281-7

Date Collected: 08/06/21 09:55
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 73.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**1400**		360	29	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
1,2-Dichloroethane	ND		360	44	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
1,3,5-Trimethylbenzene	**8100**		360	36	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
Toluene	**100**	**J**	360	44	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
Xylenes, Total	**3500**		730	100	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50

Client Sample ID: Pipe 77 (2)

Lab Sample ID: 410-50281-7

Date Collected: 08/06/21 09:55
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 73.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND		360	36	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
Benzene	ND		360	36	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
Naphthalene	**2000**		360	150	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
1,2,4-Trimethylbenzene	**19000**		360	36	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
Isopropylbenzene	**1800**		360	29	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50
1,2-Dibromoethane	ND		360	29	ug/Kg	☼	08/08/21 12:23	08/11/21 15:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*54 - 135*	*08/08/21 12:23*	*08/11/21 15:49*	*50*
4-Bromofluorobenzene (Surr)	*69*		*50 - 131*	*08/08/21 12:23*	*08/11/21 15:49*	*50*
Dibromofluoromethane (Surr)	*73*		*50 - 141*	*08/08/21 12:23*	*08/11/21 15:49*	*50*
Toluene-d8 (Surr)	*69*		*52 - 141*	*08/08/21 12:23*	*08/11/21 15:49*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Benzo[a]anthracene	**190**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Benzo[a]pyrene	**270**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Benzo[b]fluoranthene	**200**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Benzo[g,h,i]perylene	**270**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Chrysene	**370**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Fluorene	**900**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Phenanthrene	**870**		22	5.4	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1
Pyrene	**560**		22	4.5	ug/Kg	☼	08/10/21 09:37	08/10/21 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*	*08/10/21 09:37*	*08/10/21 19:37*	*1*
Nitrobenzene-d5 (Surr)	*82*		*32 - 97*	*08/10/21 09:37*	*08/10/21 19:37*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/10/21 09:37*	*08/10/21 19:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**210**		1.8	0.71	mg/Kg	☼	08/09/21 03:32	08/11/21 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26.8**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 76 (2)

Lab Sample ID: 410-50281-8

Date Collected: 08/06/21 12:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 91.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		4.8	0.38	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
1,2-Dichloroethane	ND		4.8	0.57	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
1,3,5-Trimethylbenzene	ND		4.8	0.48	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
Toluene	ND		4.8	0.57	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
Xylenes, Total	ND		9.5	1.3	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
Methyl tertiary butyl ether	**1.1**	**J**	4.8	0.48	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
Benzene	ND		4.8	0.48	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1

Client Sample ID: Pipe 76 (2)

Lab Sample ID: 410-50281-8

Date Collected: 08/06/21 12:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 91.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.8	1.9	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
1,2,4-Trimethylbenzene	ND		4.8	0.48	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
Isopropylbenzene	ND		4.8	0.38	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1
1,2-Dibromoethane	ND		4.8	0.38	ug/Kg	☼	08/08/21 12:28	08/10/21 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*54 - 135*	*08/08/21 12:28*	*08/10/21 13:59*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/08/21 12:28*	*08/10/21 13:59*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 12:28*	*08/10/21 13:59*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/08/21 12:28*	*08/10/21 13:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**14**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Benzo[a]anthracene	**83**		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Benzo[a]pyrene	**120**		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Benzo[b]fluoranthene	**190**		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Benzo[g,h,i]perylene	**150**		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Chrysene	**140**		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Fluorene	**5.6**	**J**	18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Phenanthrene	**76**		18	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1
Pyrene	**180**		18	3.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*39 - 100*	*08/10/21 09:37*	*08/10/21 20:00*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*08/10/21 09:37*	*08/10/21 20:00*	*1*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*	*08/10/21 09:37*	*08/10/21 20:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**270**		1.6	0.62	mg/Kg	☼	08/09/21 03:39	08/12/21 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 7551-P3 (3)

Lab Sample ID: 410-50281-9

Date Collected: 08/06/21 12:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 71.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.3	0.50	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
1,2-Dichloroethane	ND		6.3	0.75	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
1,3,5-Trimethylbenzene	**0.71**	**J**	6.3	0.63	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
Toluene	**0.84**	**J**	6.3	0.75	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
Xylenes, Total	ND		13	1.8	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
Methyl tertiary butyl ether	ND		6.3	0.63	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
Benzene	**0.85**	**J**	6.3	0.63	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
Naphthalene	ND		6.3	2.5	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
1,2,4-Trimethylbenzene	**0.77**	**J**	6.3	0.63	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1

Client Sample ID: 7551-P3 (3)

Lab Sample ID: 410-50281-9

Date Collected: 08/06/21 12:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 71.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		6.3	0.50	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1
1,2-Dibromoethane	ND		6.3	0.50	ug/Kg	☼	08/08/21 12:28	08/10/21 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/08/21 12:28*	*08/10/21 14:22*	*1*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/08/21 12:28*	*08/10/21 14:22*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 141*	*08/08/21 12:28*	*08/10/21 14:22*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/08/21 12:28*	*08/10/21 14:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**65**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Benzo[a]anthracene	**220**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Benzo[a]pyrene	**200**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Benzo[b]fluoranthene	**230**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Benzo[g,h,i]perylene	**140**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Chrysene	**210**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Fluorene	**32**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Phenanthrene	**260**		23	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1
Pyrene	**340**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*39 - 100*	*08/10/21 09:37*	*08/10/21 20:23*	*1*
Nitrobenzene-d5 (Surr)	*78*		*32 - 97*	*08/10/21 09:37*	*08/10/21 20:23*	*1*
p-Terphenyl-d14 (Surr)	*90*		*45 - 108*	*08/10/21 09:37*	*08/10/21 20:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**44**		1.9	0.76	mg/Kg	☼	08/09/21 03:39	08/12/21 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.6**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-50281-10

Date Collected: 08/06/21 00:00
Matrix: Water
Date Received: 08/06/21 15:23

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/10/21 20:55	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/10/21 20:55	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/10/21 20:55	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:55	1
Toluene	ND		1.0	0.30	ug/L			08/10/21 20:55	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/10/21 20:55	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/10/21 20:55	1
Benzene	ND		1.0	0.30	ug/L			08/10/21 20:55	1
Naphthalene	ND		5.0	1.0	ug/L			08/10/21 20:55	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/10/21 20:55	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:55	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-50281-10

Date Collected: 08/06/21 00:00

Matrix: Water

Date Received: 08/06/21 15:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*08/10/21 20:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/10/21 20:55*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*08/10/21 20:55*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/10/21 20:55*	*1*

Client Sample ID: Pipe 53 (2)

Lab Sample ID: 410-50281-11

Date Collected: 08/05/21 14:15

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 74.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.9	0.71	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
1,2-Dichloroethane	ND		8.9	1.1	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
1,3,5-Trimethylbenzene	ND	*3	8.9	0.89	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
Toluene	ND		8.9	1.1	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
Xylenes, Total	ND		18	2.5	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
Methyl tertiary butyl ether	ND		8.9	0.89	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
Benzene	ND		8.9	0.89	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
Naphthalene	ND	*3	8.9	3.6	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
1,2,4-Trimethylbenzene	ND	*3	8.9	0.89	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
Isopropylbenzene	ND		8.9	0.71	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1
1,2-Dibromoethane	ND		8.9	0.71	ug/Kg	☼	08/08/21 12:28	08/10/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/08/21 12:28*	*08/10/21 14:44*	*1*
4-Bromofluorobenzene (Surr)	*72*		*50 - 131*	*08/08/21 12:28*	*08/10/21 14:44*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 12:28*	*08/10/21 14:44*	*1*
Toluene-d8 (Surr)	*110*		*52 - 141*	*08/08/21 12:28*	*08/10/21 14:44*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Benzo[a]anthracene	**170**	**J**	220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Benzo[a]pyrene	**220**		220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Benzo[b]fluoranthene	**230**		220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Benzo[g,h,i]perylene	**160**	**J**	220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Chrysene	**170**	**J**	220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Fluorene	ND		220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Phenanthrene	**56**	**J**	220	54	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5
Pyrene	**220**		220	45	ug/Kg	☼	08/10/21 09:43	08/12/21 07:05	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*08/10/21 09:43*	*08/12/21 07:05*	*5*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/10/21 09:43*	*08/12/21 07:05*	*5*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/10/21 09:43*	*08/12/21 07:05*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**83**		1.4	0.58	mg/Kg	☼	08/09/21 03:39	08/12/21 10:22	1

Client Sample ID: Pipe 53 (2)

Lab Sample ID: 410-50281-11
Date Collected: 08/05/21 14:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 74.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.4		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 1044-P4 (3)

Lab Sample ID: 410-50281-12
Date Collected: 08/05/21 14:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 73.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.7	0.54	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
1,2-Dichloroethane	ND		6.7	0.80	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
1,3,5-Trimethylbenzene	ND		6.7	0.67	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
Toluene	ND		6.7	0.80	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
Xylenes, Total	ND		13	1.9	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
Methyl tertiary butyl ether	ND		6.7	0.67	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
Benzene	1.3	J	6.7	0.67	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
Naphthalene	ND		6.7	2.7	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
1,2,4-Trimethylbenzene	ND		6.7	0.67	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
Isopropylbenzene	ND		6.7	0.54	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1
1,2-Dibromoethane	ND		6.7	0.54	ug/Kg	☼	08/08/21 12:28	08/10/21 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/08/21 12:28*	*08/10/21 17:00*	*1*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/08/21 12:28*	*08/10/21 17:00*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 12:28*	*08/10/21 17:00*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/08/21 12:28*	*08/10/21 17:00*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	64		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Benzo[a]anthracene	120		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Benzo[a]pyrene	95		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Benzo[b]fluoranthene	120		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Benzo[g,h,i]perylene	77		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Chrysene	120		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Fluorene	37		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Phenanthrene	99		23	5.4	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1
Pyrene	150		23	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/10/21 09:43*	*08/12/21 05:12*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/10/21 09:43*	*08/12/21 05:12*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*08/10/21 09:43*	*08/12/21 05:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2100		1.9	0.78	mg/Kg	☼	08/09/21 03:39	08/12/21 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.7		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 55 (2)

Lab Sample ID: 410-50281-13

Date Collected: 08/05/21 14:40
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 69.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		600	48	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
1,2-Dichloroethane	ND		600	72	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
1,3,5-Trimethylbenzene	ND		600	60	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
Toluene	ND		600	72	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
Xylenes, Total	ND		1200	170	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
Methyl tertiary butyl ether	ND		600	60	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
Benzene	ND		600	60	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
Naphthalene	ND		600	240	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
1,2,4-Trimethylbenzene	ND		600	60	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
Isopropylbenzene	ND		600	48	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50
1,2-Dibromoethane	ND		600	48	ug/Kg	☼	08/08/21 11:15	08/11/21 16:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*54 - 135*	*08/08/21 11:15*	*08/11/21 16:10*	*50*
4-Bromofluorobenzene (Surr)	*75*		*50 - 131*	*08/08/21 11:15*	*08/11/21 16:10*	*50*
Dibromofluoromethane (Surr)	*89*		*50 - 141*	*08/08/21 11:15*	*08/11/21 16:10*	*50*
Toluene-d8 (Surr)	*83*		*52 - 141*	*08/08/21 11:15*	*08/11/21 16:10*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**110**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Benzo[a]anthracene	**510**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Benzo[a]pyrene	**460**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Benzo[b]fluoranthene	**580**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Benzo[g,h,i]perylene	**330**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Chrysene	**580**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Fluorene	**92**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Phenanthrene	**1100**		23	5.6	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1
Pyrene	**930**		23	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/10/21 09:43*	*08/12/21 05:35*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/10/21 09:43*	*08/12/21 05:35*	*1*
p-Terphenyl-d14 (Surr)	*77*		*45 - 108*	*08/10/21 09:43*	*08/12/21 05:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**750**	**F2**	1.8	0.73	mg/Kg	☼	08/09/21 03:39	08/12/21 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.1**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 78 (2)

Lab Sample ID: 410-50281-14

Date Collected: 08/06/21 09:05
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 59.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**140**	**J**	550	44	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
1,2-Dichloroethane	ND		550	65	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50

Client Sample ID: Pipe 78 (2)

Lab Sample ID: 410-50281-14

Date Collected: 08/06/21 09:05
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 59.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1100		550	55	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
Toluene	110	J	550	65	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
Xylenes, Total	470	J	1100	150	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
Methyl tertiary butyl ether	ND		550	55	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
Benzene	ND		550	55	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
Naphthalene	290	J	550	220	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
1,2,4-Trimethylbenzene	2200		550	55	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
Isopropylbenzene	180	J	550	44	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50
1,2-Dibromoethane	ND		550	44	ug/Kg	☼	08/08/21 11:15	08/11/21 16:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*54 - 135*	*08/08/21 11:15*	*08/11/21 16:31*	*50*
4-Bromofluorobenzene (Surr)	*77*		*50 - 131*	*08/08/21 11:15*	*08/11/21 16:31*	*50*
Dibromofluoromethane (Surr)	*82*		*50 - 141*	*08/08/21 11:15*	*08/11/21 16:31*	*50*
Toluene-d8 (Surr)	*78*		*52 - 141*	*08/08/21 11:15*	*08/11/21 16:31*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	31		28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Benzo[a]anthracene	22	J	28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Benzo[a]pyrene	21	J	28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Benzo[b]fluoranthene	40		28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Benzo[g,h,i]perylene	56		28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Chrysene	30		28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Fluorene	ND		28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Phenanthrene	64		28	6.6	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1
Pyrene	54		28	5.5	ug/Kg	☼	08/10/21 09:37	08/10/21 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/10/21 09:37*	*08/10/21 20:45*	*1*
Nitrobenzene-d5 (Surr)	*81*		*32 - 97*	*08/10/21 09:37*	*08/10/21 20:45*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*08/10/21 09:37*	*08/10/21 20:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	94		1.9	0.74	mg/Kg	☼	08/09/21 03:39	08/12/21 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	40.1		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 79 (2)

Lab Sample ID: 410-50281-15

Date Collected: 08/06/21 09:40
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1700		250	20	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
1,2-Dichloroethane	ND		250	30	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
1,3,5-Trimethylbenzene	39	J	250	25	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
Toluene	ND		250	30	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50

Client Sample ID: Pipe 79 (2)
Date Collected: 08/06/21 09:40
Date Received: 08/06/21 15:23

Lab Sample ID: 410-50281-15
Matrix: Solid
Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	110	J	510	71	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
Benzene	26	J	250	25	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
Naphthalene	820		250	100	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
Isopropylbenzene	1000		250	20	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50
1,2-Dibromoethane	ND		250	20	ug/Kg	☼	08/08/21 11:15	08/11/21 16:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*54 - 135*	*08/08/21 11:15*	*08/11/21 16:52*	*50*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*	*08/08/21 11:15*	*08/11/21 16:52*	*50*
Dibromofluoromethane (Surr)	*83*		*50 - 141*	*08/08/21 11:15*	*08/11/21 16:52*	*50*
Toluene-d8 (Surr)	*83*		*52 - 141*	*08/08/21 11:15*	*08/11/21 16:52*	*50*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	27000		2500	250	ug/Kg	☼	08/08/21 11:15	08/12/21 12:03	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*54 - 135*	*08/08/21 11:15*	*08/12/21 12:03*	*500*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/08/21 11:15*	*08/12/21 12:03*	*500*
Dibromofluoromethane (Surr)	*82*		*50 - 141*	*08/08/21 11:15*	*08/12/21 12:03*	*500*
Toluene-d8 (Surr)	*82*		*52 - 141*	*08/08/21 11:15*	*08/12/21 12:03*	*500*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	35		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Benzo[a]anthracene	62		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Benzo[a]pyrene	47		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Benzo[b]fluoranthene	44		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Benzo[g,h,i]perylene	41		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Chrysene	80		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Fluorene	130		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Phenanthrene	190		18	4.4	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1
Pyrene	100		18	3.7	ug/Kg	☼	08/10/21 09:37	08/10/21 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*	*08/10/21 09:37*	*08/10/21 21:08*	*1*
Nitrobenzene-d5 (Surr)	*77*		*32 - 97*	*08/10/21 09:37*	*08/10/21 21:08*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*08/10/21 09:37*	*08/10/21 21:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		1.3	0.51	mg/Kg	☼	08/09/21 03:39	08/12/21 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 7551-P7 (3)

Lab Sample ID: 410-50281-16

Date Collected: 08/06/21 09:45
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 83.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**42**	**J**	340	27	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
1,2-Dichloroethane	ND		340	41	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
1,3,5-Trimethylbenzene	**180**	**J**	340	34	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
Toluene	**220**	**J**	340	41	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
Xylenes, Total	**300**	**J**	680	95	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
Methyl tertiary butyl ether	ND		340	34	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
Benzene	ND		340	34	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
Naphthalene	ND		340	140	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
1,2,4-Trimethylbenzene	**420**		340	34	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
Isopropylbenzene	ND		340	27	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50
1,2-Dibromoethane	ND		340	27	ug/Kg	☼	08/08/21 11:15	08/11/21 17:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*73*		*54 - 135*	*08/08/21 11:15*	*08/11/21 17:12*	*50*
4-Bromofluorobenzene (Surr)	*78*		*50 - 131*	*08/08/21 11:15*	*08/11/21 17:12*	*50*
Dibromofluoromethane (Surr)	*65*		*50 - 141*	*08/08/21 11:15*	*08/11/21 17:12*	*50*
Toluene-d8 (Surr)	*68*		*52 - 141*	*08/08/21 11:15*	*08/11/21 17:12*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**18**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Benzo[a]anthracene	**26**		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Benzo[a]pyrene	**39**		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Benzo[b]fluoranthene	**48**		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Benzo[g,h,i]perylene	**95**		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Chrysene	**34**		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Fluorene	ND		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Phenanthrene	**35**		20	4.8	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1
Pyrene	**44**		20	4.0	ug/Kg	☼	08/10/21 09:37	08/10/21 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*39 - 100*	*08/10/21 09:37*	*08/10/21 21:31*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*08/10/21 09:37*	*08/10/21 21:31*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/10/21 09:37*	*08/10/21 21:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**18**		1.6	0.65	mg/Kg	☼	08/09/21 03:39	08/12/21 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.0**		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 82 (2)

Lab Sample ID: 410-50281-17

Date Collected: 08/06/21 10:10
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 70.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**1.0**	**J**	7.3	0.58	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
1,2-Dichloroethane	ND		7.3	0.87	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1

Client Sample ID: Pipe 82 (2)

Lab Sample ID: 410-50281-17

Date Collected: 08/06/21 10:10
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 70.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.73	J	7.3	0.73	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
Toluene	6.8	J	7.3	0.87	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
Xylenes, Total	5.9	J	15	2.0	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
Methyl tertiary butyl ether	ND		7.3	0.73	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
Benzene	6.2	J	7.3	0.73	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
Naphthalene	ND		7.3	2.9	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
1,2,4-Trimethylbenzene	1.2	J	7.3	0.73	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
Isopropylbenzene	ND		7.3	0.58	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1
1,2-Dibromoethane	ND		7.3	0.58	ug/Kg	☼	08/08/21 11:15	08/10/21 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*54 - 135*	*08/08/21 11:15*	*08/10/21 17:46*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/08/21 11:15*	*08/10/21 17:46*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 11:15*	*08/10/21 17:46*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/08/21 11:15*	*08/10/21 17:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	110		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Benzo[a]anthracene	360		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Benzo[a]pyrene	390		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Benzo[b]fluoranthene	510		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Benzo[g,h,i]perylene	390		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Chrysene	390		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Fluorene	32		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Phenanthrene	450		24	5.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1
Pyrene	570		24	4.7	ug/Kg	☼	08/11/21 17:48	08/12/21 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*08/11/21 17:48*	*08/12/21 22:25*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/11/21 17:48*	*08/12/21 22:25*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/11/21 17:48*	*08/12/21 22:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	200		1.9	0.78	mg/Kg	☼	08/09/21 03:39	08/12/21 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29.9		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: 7551-P6 (3)

Lab Sample ID: 410-50281-18

Date Collected: 08/06/21 10:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 66.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4100		460	37	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
1,2-Dichloroethane	ND		460	55	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
1,3,5-Trimethylbenzene	15000		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
Toluene	8400		460	55	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50

Client Sample ID: 7551-P6 (3)
Date Collected: 08/06/21 10:15
Date Received: 08/06/21 15:23

Lab Sample ID: 410-50281-18
Matrix: Solid
Percent Solids: 66.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	31000		920	130	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
Methyl tertiary butyl ether	ND		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
Benzene	720		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
Naphthalene	1100		460	180	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
Isopropylbenzene	2000		460	37	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50
1,2-Dibromoethane	ND		460	37	ug/Kg	☼	08/08/21 11:15	08/11/21 17:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*54 - 135*	*08/08/21 11:15*	*08/11/21 17:33*	*50*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/08/21 11:15*	*08/11/21 17:33*	*50*
Dibromofluoromethane (Surr)	*81*		*50 - 141*	*08/08/21 11:15*	*08/11/21 17:33*	*50*
Toluene-d8 (Surr)	*85*		*52 - 141*	*08/08/21 11:15*	*08/11/21 17:33*	*50*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	51000		4600	460	ug/Kg	☼	08/08/21 11:15	08/12/21 12:24	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*54 - 135*	*08/08/21 11:15*	*08/12/21 12:24*	*500*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/08/21 11:15*	*08/12/21 12:24*	*500*
Dibromofluoromethane (Surr)	*77*		*50 - 141*	*08/08/21 11:15*	*08/12/21 12:24*	*500*
Toluene-d8 (Surr)	*79*		*52 - 141*	*08/08/21 11:15*	*08/12/21 12:24*	*500*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	21	J	25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Benzo[a]anthracene	26		25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Benzo[a]pyrene	17	J	25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Benzo[b]fluoranthene	29		25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Benzo[g,h,i]perylene	43		25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Chrysene	63		25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Fluorene	31		25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Phenanthrene	74		25	6.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1
Pyrene	36		25	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/10/21 09:37*	*08/10/21 22:16*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/10/21 09:37*	*08/10/21 22:16*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/10/21 09:37*	*08/10/21 22:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21		2.3	0.90	mg/Kg	☼	08/09/21 03:39	08/12/21 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	33.7		1.0	1.0	%			08/07/21 00:30	1

Client Sample ID: Pipe 81 (2)

Lab Sample ID: 410-50281-19

Date Collected: 08/06/21 10:25
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 80.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.4	J	5.6	0.44	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
1,2-Dichloroethane	1.3	J	5.6	0.67	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
1,3,5-Trimethylbenzene	ND		5.6	0.56	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
Toluene	31		5.6	0.67	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
Xylenes, Total	7.3	J	11	1.6	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
Methyl tertiary butyl ether	ND		5.6	0.56	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
Benzene	12		5.6	0.56	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
Naphthalene	ND		5.6	2.2	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
1,2,4-Trimethylbenzene	1.1	J	5.6	0.56	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
Isopropylbenzene	ND		5.6	0.44	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1
1,2-Dibromoethane	ND		5.6	0.44	ug/Kg	☼	08/08/21 11:15	08/11/21 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*54 - 135*	*08/08/21 11:15*	*08/11/21 14:10*	*1*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/08/21 11:15*	*08/11/21 14:10*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*	*08/08/21 11:15*	*08/11/21 14:10*	*1*
Toluene-d8 (Surr)	*100*		*52 - 141*	*08/08/21 11:15*	*08/11/21 14:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	48		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Benzo[a]anthracene	120		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Benzo[a]pyrene	330		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Benzo[b]fluoranthene	370		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Benzo[g,h,i]perylene	430		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Chrysene	130		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Fluorene	12	J	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Phenanthrene	97		20	4.9	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1
Pyrene	140		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/10/21 17:56*	*08/11/21 12:18*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/10/21 17:56*	*08/11/21 12:18*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*08/10/21 17:56*	*08/11/21 12:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	500		1.4	0.56	mg/Kg	☼	08/09/21 03:32	08/11/21 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.8		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 83 (2)

Lab Sample ID: 410-50281-20

Date Collected: 08/06/21 10:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.4	0.43	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
1,2-Dichloroethane	ND		5.4	0.65	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1

Client Sample ID: Pipe 83 (2)

Lab Sample ID: 410-50281-20

Date Collected: 08/06/21 10:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.4	0.54	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
Toluene	**5.5**		5.4	0.65	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
Xylenes, Total	**2.8**	**J**	11	1.5	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
Methyl tertiary butyl ether	ND		5.4	0.54	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
Benzene	**3.8**	**J**	5.4	0.54	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
Naphthalene	ND		5.4	2.2	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
1,2,4-Trimethylbenzene	**0.58**	**J**	5.4	0.54	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
Isopropylbenzene	ND		5.4	0.43	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1
1,2-Dibromoethane	ND		5.4	0.43	ug/Kg	☼	08/08/21 11:15	08/10/21 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*54 - 135*	*08/08/21 11:15*	*08/10/21 15:30*	*1*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*	*08/08/21 11:15*	*08/10/21 15:30*	*1*
Dibromofluoromethane (Surr)	*99*		*50 - 141*	*08/08/21 11:15*	*08/10/21 15:30*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/08/21 11:15*	*08/10/21 15:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**55**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Benzo[a]anthracene	**350**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Benzo[a]pyrene	**330**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Benzo[b]fluoranthene	**490**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Benzo[g,h,i]perylene	**300**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Chrysene	**370**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Fluorene	**15**	**J**	20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Phenanthrene	**190**		20	4.8	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1
Pyrene	**560**		20	4.0	ug/Kg	☼	08/10/21 17:56	08/11/21 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/10/21 17:56*	*08/11/21 12:40*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/10/21 17:56*	*08/11/21 12:40*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/10/21 17:56*	*08/11/21 12:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**76**		1.2	0.50	mg/Kg	☼	08/09/21 03:32	08/11/21 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.6**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 80 (2)

Lab Sample ID: 410-50281-21

Date Collected: 08/06/21 10:40
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 87.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**3.8**	**J**	5.9	0.47	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
1,2-Dichloroethane	ND		5.9	0.71	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
1,3,5-Trimethylbenzene	**1.4**	**J**	5.9	0.59	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
Toluene	**11**		5.9	0.71	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1

Client Sample ID: Pipe 80 (2)

Lab Sample ID: 410-50281-21

Date Collected: 08/06/21 10:40
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 87.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**12**		12	1.7	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
Methyl tertiary butyl ether	ND		5.9	0.59	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
Benzene	**3.8**	**J**	5.9	0.59	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
Naphthalene	ND		5.9	2.4	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
1,2,4-Trimethylbenzene	**5.7**	**J**	5.9	0.59	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
Isopropylbenzene	ND		5.9	0.47	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1
1,2-Dibromoethane	ND		5.9	0.47	ug/Kg	☼	08/08/21 11:15	08/11/21 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/08/21 11:15*	*08/11/21 14:56*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/08/21 11:15*	*08/11/21 14:56*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 141*	*08/08/21 11:15*	*08/11/21 14:56*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/08/21 11:15*	*08/11/21 14:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**33**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Benzo[a]anthracene	**57**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Benzo[a]pyrene	**94**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Benzo[b]fluoranthene	**100**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Benzo[g,h,i]perylene	**110**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Chrysene	**65**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Fluorene	**21**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Phenanthrene	**110**		19	4.6	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1
Pyrene	**120**		19	3.8	ug/Kg	☼	08/10/21 17:56	08/11/21 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*08/10/21 17:56*	*08/11/21 13:03*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/10/21 17:56*	*08/11/21 13:03*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/10/21 17:56*	*08/11/21 13:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**30**		1.4	0.56	mg/Kg	☼	08/09/21 03:32	08/11/21 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.9**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 50 (2)

Lab Sample ID: 410-50281-22

Date Collected: 08/05/21 12:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.7	0.61	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
1,2-Dichloroethane	ND		7.7	0.92	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
1,3,5-Trimethylbenzene	ND		7.7	0.77	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
Toluene	ND		7.7	0.92	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
Xylenes, Total	ND		15	2.2	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
Methyl tertiary butyl ether	ND		7.7	0.77	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1

Client Sample ID: Pipe 50 (2)

Lab Sample ID: 410-50281-22

Date Collected: 08/05/21 12:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		7.7	0.77	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
Naphthalene	ND		7.7	3.1	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
1,2,4-Trimethylbenzene	ND		7.7	0.77	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
Isopropylbenzene	ND		7.7	0.61	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1
1,2-Dibromoethane	ND		7.7	0.61	ug/Kg	☼	08/08/21 11:15	08/10/21 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*54 - 135*	*08/08/21 11:15*	*08/10/21 15:52*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/08/21 11:15*	*08/10/21 15:52*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 11:15*	*08/10/21 15:52*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/08/21 11:15*	*08/10/21 15:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Benzo[a]anthracene	**9.8**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Benzo[a]pyrene	**6.2**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Benzo[b]fluoranthene	**9.9**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Benzo[g,h,i]perylene	**11**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Chrysene	**9.7**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Fluorene	ND		21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Phenanthrene	**10**	**J**	21	5.0	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1
Pyrene	**13**	**J**	21	4.1	ug/Kg	☼	08/10/21 09:43	08/12/21 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/10/21 09:43*	*08/12/21 05:57*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/10/21 09:43*	*08/12/21 05:57*	*1*
p-Terphenyl-d14 (Surr)	*74*		*45 - 108*	*08/10/21 09:43*	*08/12/21 05:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**320**		1.7	0.69	mg/Kg	☼	08/09/21 03:32	08/11/21 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.2**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 49 (2)

Lab Sample ID: 410-50281-23

Date Collected: 08/05/21 12:55
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 83.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.0	0.56	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
1,2-Dichloroethane	ND		7.0	0.84	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
1,3,5-Trimethylbenzene	ND		7.0	0.70	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
Toluene	ND		7.0	0.84	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
Xylenes, Total	ND		14	1.9	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
Methyl tertiary butyl ether	ND		7.0	0.70	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
Benzene	**1.1**	**J**	7.0	0.70	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
Naphthalene	ND		7.0	2.8	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1

Client Sample ID: Pipe 49 (2)

Lab Sample ID: 410-50281-23

Date Collected: 08/05/21 12:55
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 83.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		7.0	0.70	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
Isopropylbenzene	ND		7.0	0.56	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1
1,2-Dibromoethane	ND		7.0	0.56	ug/Kg	☼	08/08/21 12:04	08/10/21 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/08/21 12:04*	*08/10/21 18:08*	*1*
4-Bromofluorobenzene (Surr)	*78*		*50 - 131*	*08/08/21 12:04*	*08/10/21 18:08*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/08/21 12:04*	*08/10/21 18:08*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/08/21 12:04*	*08/10/21 18:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**13**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Benzo[a]anthracene	**19**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Benzo[a]pyrene	**20**		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Benzo[b]fluoranthene	**27**		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Benzo[g,h,i]perylene	**22**		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Chrysene	**25**		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Fluorene	ND		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Phenanthrene	**52**		20	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1
Pyrene	**50**		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/10/21 09:43*	*08/12/21 06:20*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/10/21 09:43*	*08/12/21 06:20*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/10/21 09:43*	*08/12/21 06:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**78**		1.4	0.55	mg/Kg	☼	08/09/21 03:32	08/11/21 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.1**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 45 (2)

Lab Sample ID: 410-50281-24

Date Collected: 08/05/21 13:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 84.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		470	37	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
1,2-Dichloroethane	ND		470	56	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
1,3,5-Trimethylbenzene	ND		470	47	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
Toluene	ND		470	56	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
Xylenes, Total	ND		940	130	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
Methyl tertiary butyl ether	ND		470	47	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
Benzene	ND		470	47	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
Naphthalene	ND		470	190	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
1,2,4-Trimethylbenzene	**75**	**J**	470	47	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50
Isopropylbenzene	ND		470	37	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50

Client Sample ID: Pipe 45 (2)

Lab Sample ID: 410-50281-24

Date Collected: 08/05/21 13:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 84.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		470	37	ug/Kg	☼	08/08/21 11:15	08/11/21 17:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*54 - 135*	*08/08/21 11:15*	*08/11/21 17:54*	*50*
4-Bromofluorobenzene (Surr)	*66*		*50 - 131*	*08/08/21 11:15*	*08/11/21 17:54*	*50*
Dibromofluoromethane (Surr)	*76*		*50 - 141*	*08/08/21 11:15*	*08/11/21 17:54*	*50*
Toluene-d8 (Surr)	*72*		*52 - 141*	*08/08/21 11:15*	*08/11/21 17:54*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**22**		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Benzo[a]anthracene	**6.7**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Benzo[a]pyrene	**6.7**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Benzo[b]fluoranthene	**14**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Benzo[g,h,i]perylene	**9.3**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Chrysene	**11**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Fluorene	ND		20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Phenanthrene	**32**		20	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1
Pyrene	**15**	**J**	20	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/10/21 09:43*	*08/12/21 06:43*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/10/21 09:43*	*08/12/21 06:43*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/10/21 09:43*	*08/12/21 06:43*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**330**		1.7	0.68	mg/Kg	☼	08/09/21 03:32	08/11/21 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.7**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 47 (2)

Lab Sample ID: 410-50281-25

Date Collected: 08/05/21 13:05
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 86.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		510	41	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
1,2-Dichloroethane	ND		510	61	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
1,3,5-Trimethylbenzene	ND		510	51	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
Toluene	ND		510	61	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
Xylenes, Total	ND		1000	140	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
Methyl tertiary butyl ether	ND		510	51	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
Benzene	ND		510	51	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
Naphthalene	ND		510	200	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
1,2,4-Trimethylbenzene	ND		510	51	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
Isopropylbenzene	ND		510	41	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50
1,2-Dibromoethane	ND		510	41	ug/Kg	☼	08/08/21 11:15	08/11/21 18:15	50

Client Sample ID: Pipe 47 (2)

Lab Sample ID: 410-50281-25

Date Collected: 08/05/21 13:05
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 86.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*54 - 135*	*08/08/21 11:15*	*08/11/21 18:15*	*50*
4-Bromofluorobenzene (Surr)	*68*		*50 - 131*	*08/08/21 11:15*	*08/11/21 18:15*	*50*
Dibromofluoromethane (Surr)	*79*		*50 - 141*	*08/08/21 11:15*	*08/11/21 18:15*	*50*
Toluene-d8 (Surr)	*72*		*52 - 141*	*08/08/21 11:15*	*08/11/21 18:15*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Benzo[a]anthracene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Benzo[a]pyrene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Benzo[b]fluoranthene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Benzo[g,h,i]perylene	**80**	**J**	190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Chrysene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Fluorene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Phenanthrene	ND		190	46	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10
Pyrene	ND		190	38	ug/Kg	☼	08/10/21 09:43	08/12/21 07:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*39 - 100*	*08/10/21 09:43*	*08/12/21 07:27*	*10*
Nitrobenzene-d5 (Surr)	*59*		*32 - 97*	*08/10/21 09:43*	*08/12/21 07:27*	*10*
p-Terphenyl-d14 (Surr)	*66*		*45 - 108*	*08/10/21 09:43*	*08/12/21 07:27*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**69**		1.5	0.59	mg/Kg	☼	08/09/21 03:32	08/11/21 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.8**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 46 (2)

Lab Sample ID: 410-50281-26

Date Collected: 08/05/21 13:10
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 81.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		460	37	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
1,2-Dichloroethane	ND		460	55	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
1,3,5-Trimethylbenzene	ND		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
Toluene	ND		460	55	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
Xylenes, Total	ND		920	130	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
Methyl tertiary butyl ether	ND		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
Benzene	ND		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
Naphthalene	ND		460	180	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
1,2,4-Trimethylbenzene	ND		460	46	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
Isopropylbenzene	ND		460	37	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50
1,2-Dibromoethane	ND		460	37	ug/Kg	☼	08/08/21 11:15	08/11/21 18:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*54 - 135*	*08/08/21 11:15*	*08/11/21 18:36*	*50*
4-Bromofluorobenzene (Surr)	*72*		*50 - 131*	*08/08/21 11:15*	*08/11/21 18:36*	*50*
Dibromofluoromethane (Surr)	*82*		*50 - 141*	*08/08/21 11:15*	*08/11/21 18:36*	*50*

Client Sample ID: Pipe 46 (2)

Lab Sample ID: 410-50281-26

Date Collected: 08/05/21 13:10
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 81.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*78*		*52 - 141*	*08/08/21 11:15*	*08/11/21 18:36*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**130**	**J**	400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Benzo[a]anthracene	**370**	**J**	400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Benzo[a]pyrene	**380**	**J**	400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Benzo[b]fluoranthene	**440**		400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Benzo[g,h,i]perylene	**340**	**J**	400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Chrysene	**460**		400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Fluorene	ND		400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Phenanthrene	**560**		400	97	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10
Pyrene	**700**		400	81	ug/Kg	☼	08/10/21 09:43	08/12/21 07:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*69*		*39 - 100*	*08/10/21 09:43*	*08/12/21 07:50*	*10*
Nitrobenzene-d5 (Surr)	*49*		*32 - 97*	*08/10/21 09:43*	*08/12/21 07:50*	*10*
p-Terphenyl-d14 (Surr)	*75*		*45 - 108*	*08/10/21 09:43*	*08/12/21 07:50*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**600**		1.8	0.70	mg/Kg	☼	08/09/21 03:32	08/11/21 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.6**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 48 (2)

Lab Sample ID: 410-50281-27

Date Collected: 08/05/21 13:20
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 85.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**0.65**	**J**	7.9	0.64	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
1,2-Dichloroethane	ND		7.9	0.95	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
1,3,5-Trimethylbenzene	ND		7.9	0.79	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
Toluene	**2.3**	**J**	7.9	0.95	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
Xylenes, Total	**3.5**	**J**	16	2.2	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
Methyl tertiary butyl ether	ND		7.9	0.79	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
Benzene	**0.93**	**J**	7.9	0.79	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
Naphthalene	ND		7.9	3.2	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
1,2,4-Trimethylbenzene	**0.87**	**J**	7.9	0.79	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
Isopropylbenzene	ND		7.9	0.64	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1
1,2-Dibromoethane	ND		7.9	0.64	ug/Kg	☼	08/08/21 11:15	08/10/21 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*115*		*54 - 135*	*08/08/21 11:15*	*08/10/21 18:31*	*1*
4-Bromofluorobenzene (Surr)	*80*		*50 - 131*	*08/08/21 11:15*	*08/10/21 18:31*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/08/21 11:15*	*08/10/21 18:31*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/08/21 11:15*	*08/10/21 18:31*	*1*

Client Sample ID: Pipe 48 (2)

Lab Sample ID: 410-50281-27

Date Collected: 08/05/21 13:20
Date Received: 08/06/21 15:23

Matrix: Solid
Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Benzo[a]anthracene	**19**		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Benzo[a]pyrene	**15**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Benzo[b]fluoranthene	**14**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Benzo[g,h,i]perylene	**27**		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Chrysene	**45**		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Fluorene	ND		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Phenanthrene	**79**		19	4.6	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1
Pyrene	**74**		19	3.9	ug/Kg	☼	08/10/21 09:37	08/10/21 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*	*08/10/21 09:37*	*08/10/21 22:38*	*1*
Nitrobenzene-d5 (Surr)	*62*		*32 - 97*	*08/10/21 09:37*	*08/10/21 22:38*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/10/21 09:37*	*08/10/21 22:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**15**		1.3	0.54	mg/Kg	☼	08/09/21 03:32	08/11/21 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.7**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: 1043-P5 (3)

Lab Sample ID: 410-50281-28

Date Collected: 08/05/21 13:25
Date Received: 08/06/21 15:23

Matrix: Solid
Percent Solids: 79.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.5	0.76	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
1,2-Dichloroethane	ND		9.5	1.1	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
1,3,5-Trimethylbenzene	ND		9.5	0.95	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
Toluene	ND		9.5	1.1	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
Xylenes, Total	ND		19	2.7	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
Methyl tertiary butyl ether	ND		9.5	0.95	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
Benzene	**1.3**	**J**	9.5	0.95	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
Naphthalene	ND		9.5	3.8	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
1,2,4-Trimethylbenzene	ND		9.5	0.95	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
Isopropylbenzene	ND		9.5	0.76	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1
1,2-Dibromoethane	ND		9.5	0.76	ug/Kg	☼	08/08/21 11:15	08/11/21 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/08/21 11:15*	*08/11/21 14:33*	*1*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/08/21 11:15*	*08/11/21 14:33*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 141*	*08/08/21 11:15*	*08/11/21 14:33*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/08/21 11:15*	*08/11/21 14:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**110**		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Benzo[a]anthracene	**290**		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1

Client Sample ID: 1043-P5 (3)

Lab Sample ID: 410-50281-28

Date Collected: 08/05/21 13:25
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 79.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	200		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Benzo[b]fluoranthene	300		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Benzo[g,h,i]perylene	150		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Chrysene	280		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Fluorene	43		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Phenanthrene	470		21	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1
Pyrene	470		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/10/21 09:37*	*08/10/21 23:01*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/10/21 09:37*	*08/10/21 23:01*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*08/10/21 09:37*	*08/10/21 23:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	560	F2	1.5	0.59	mg/Kg	☼	08/09/21 03:32	08/11/21 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.9		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: 1043-P4 (3)

Lab Sample ID: 410-50281-29

Date Collected: 08/05/21 13:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 77.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.7	0.70	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
1,2-Dichloroethane	ND		8.7	1.0	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
1,3,5-Trimethylbenzene	ND		8.7	0.87	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
Toluene	ND		8.7	1.0	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
Xylenes, Total	ND		17	2.4	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
Methyl tertiary butyl ether	ND		8.7	0.87	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
Benzene	2.6	J	8.7	0.87	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
Naphthalene	ND		8.7	3.5	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
1,2,4-Trimethylbenzene	ND		8.7	0.87	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
Isopropylbenzene	ND		8.7	0.70	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1
1,2-Dibromoethane	ND		8.7	0.70	ug/Kg	☼	08/08/21 11:15	08/10/21 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/08/21 11:15*	*08/10/21 19:39*	*1*
4-Bromofluorobenzene (Surr)	*80*		*50 - 131*	*08/08/21 11:15*	*08/10/21 19:39*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 11:15*	*08/10/21 19:39*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/08/21 11:15*	*08/10/21 19:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	420		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Benzo[a]anthracene	3100		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Benzo[a]pyrene	2700		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Benzo[b]fluoranthene	2800		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1

Client Sample ID: 1043-P4 (3)

Lab Sample ID: 410-50281-29

Date Collected: 08/05/21 13:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 77.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	1700		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Chrysene	2600		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Fluorene	54		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Phenanthrene	820		21	5.1	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1
Pyrene	4100		21	4.3	ug/Kg	☼	08/10/21 09:37	08/10/21 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/10/21 09:37*	*08/10/21 23:23*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/10/21 09:37*	*08/10/21 23:23*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/10/21 09:37*	*08/10/21 23:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	880		1.5	0.61	mg/Kg	☼	08/09/21 03:32	08/11/21 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.0		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: 1043-P1 (3)

Lab Sample ID: 410-50281-30

Date Collected: 08/05/21 13:40
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 78.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.2	0.66	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
1,2-Dichloroethane	ND		8.2	0.98	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
1,3,5-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
Toluene	ND		8.2	0.98	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
Xylenes, Total	ND		16	2.3	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
Methyl tertiary butyl ether	ND		8.2	0.82	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
Benzene	1.6	J	8.2	0.82	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
Naphthalene	ND		8.2	3.3	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
1,2,4-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
Isopropylbenzene	ND		8.2	0.66	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1
1,2-Dibromoethane	ND		8.2	0.66	ug/Kg	☼	08/08/21 11:15	08/10/21 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/08/21 11:15*	*08/10/21 18:54*	*1*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/08/21 11:15*	*08/10/21 18:54*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/08/21 11:15*	*08/10/21 18:54*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/08/21 11:15*	*08/10/21 18:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	66		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Benzo[a]anthracene	210		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Benzo[a]pyrene	160		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Benzo[b]fluoranthene	190		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Benzo[g,h,i]perylene	110		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Chrysene	200		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1

Client Sample ID: 1043-P1 (3)

Lab Sample ID: 410-50281-30

Date Collected: 08/05/21 13:40
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 78.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	**28**		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Phenanthrene	**280**		21	5.0	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1
Pyrene	**350**		21	4.2	ug/Kg	☼	08/10/21 09:37	08/10/21 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*39 - 100*	*08/10/21 09:37*	*08/10/21 23:46*	*1*
Nitrobenzene-d5 (Surr)	*56*		*32 - 97*	*08/10/21 09:37*	*08/10/21 23:46*	*1*
p-Terphenyl-d14 (Surr)	*74*		*45 - 108*	*08/10/21 09:37*	*08/10/21 23:46*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**87**		1.4	0.57	mg/Kg	☼	08/09/21 03:32	08/11/21 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.2**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 51 (2)

Lab Sample ID: 410-50281-31

Date Collected: 08/05/21 13:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 80.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.7	0.77	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
1,2-Dichloroethane	ND		9.7	1.2	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
1,3,5-Trimethylbenzene	ND	*3	9.7	0.97	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
Toluene	ND		9.7	1.2	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
Xylenes, Total	ND		19	2.7	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
Methyl tertiary butyl ether	ND		9.7	0.97	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
Benzene	**1.5**	**J**	9.7	0.97	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
Naphthalene	ND	*3	9.7	3.9	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
1,2,4-Trimethylbenzene	ND	*3	9.7	0.97	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
Isopropylbenzene	ND		9.7	0.77	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1
1,2-Dibromoethane	ND		9.7	0.77	ug/Kg	☼	08/08/21 11:15	08/11/21 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*54 - 135*	*08/08/21 11:15*	*08/11/21 15:18*	*1*
4-Bromofluorobenzene (Surr)	*67*		*50 - 131*	*08/08/21 11:15*	*08/11/21 15:18*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/08/21 11:15*	*08/11/21 15:18*	*1*
Toluene-d8 (Surr)	*108*		*52 - 141*	*08/08/21 11:15*	*08/11/21 15:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**80**	**J**	100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Benzo[a]anthracene	ND		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Benzo[a]pyrene	ND		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Benzo[b]fluoranthene	ND		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Benzo[g,h,i]perylene	**710**		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Chrysene	ND		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Fluorene	ND		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1
Phenanthrene	**270**		100	25	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1

Client Sample ID: Pipe 51 (2)

Lab Sample ID: 410-50281-31

Date Collected: 08/05/21 13:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**100**		100	21	ug/Kg	☼	08/10/21 09:37	08/11/21 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/10/21 09:37*	*08/11/21 00:08*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*08/10/21 09:37*	*08/11/21 00:08*	*1*
p-Terphenyl-d14 (Surr)	*101*		*45 - 108*	*08/10/21 09:37*	*08/11/21 00:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**460**		1.6	0.64	mg/Kg	☼	08/09/21 03:32	08/11/21 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.0**		1.0	1.0	%			08/06/21 22:34	1

Client Sample ID: Pipe 52 (2)

Lab Sample ID: 410-50281-32

Date Collected: 08/05/21 14:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 72.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.5	0.60	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
1,2-Dichloroethane	ND		7.5	0.90	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
1,3,5-Trimethylbenzene	ND		7.5	0.75	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
Toluene	ND		7.5	0.90	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
Xylenes, Total	ND		15	2.1	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
Methyl tertiary butyl ether	ND		7.5	0.75	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
Benzene	ND		7.5	0.75	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
Naphthalene	ND		7.5	3.0	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
1,2,4-Trimethylbenzene	ND		7.5	0.75	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
Isopropylbenzene	ND		7.5	0.60	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1
1,2-Dibromoethane	ND		7.5	0.60	ug/Kg	☼	08/08/21 11:15	08/11/21 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/08/21 11:15*	*08/11/21 15:41*	*1*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/08/21 11:15*	*08/11/21 15:41*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/08/21 11:15*	*08/11/21 15:41*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/08/21 11:15*	*08/11/21 15:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**18**	**J**	23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Benzo[a]anthracene	**28**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Benzo[a]pyrene	ND		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Benzo[b]fluoranthene	**34**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Benzo[g,h,i]perylene	ND		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Chrysene	**40**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Fluorene	ND		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Phenanthrene	**64**		23	5.5	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1
Pyrene	**39**		23	4.6	ug/Kg	☼	08/10/21 09:37	08/11/21 00:31	1

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: Pipe 52 (2)
Date Collected: 08/05/21 14:00
Date Received: 08/06/21 15:23

Lab Sample ID: 410-50281-32
Matrix: Solid
Percent Solids: 72.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*39 - 100*	*08/10/21 09:37*	*08/11/21 00:31*	*1*
Nitrobenzene-d5 (Surr)	*58*		*32 - 97*	*08/10/21 09:37*	*08/11/21 00:31*	*1*
p-Terphenyl-d14 (Surr)	*68*		*45 - 108*	*08/10/21 09:37*	*08/11/21 00:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**110**		1.4	0.57	mg/Kg	☼	08/09/21 03:32	08/11/21 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.0**		1.0	1.0	%			08/06/21 22:34	1

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-50281-1	DUP-3	113	88	97	97
410-50281-2	7551-P5 (3)	121	83	101	91
410-50281-3	Pipe 75 (2)	80	73	75	71
410-50281-4	7551-P1 (3)	111	89	99	93
410-50281-5	Pipe 87 (2)	82	76	78	75
410-50281-6	7551-P2 (3)	106	83	102	95
410-50281-7	Pipe 77 (2)	78	69	73	69
410-50281-8	Pipe 76 (2)	118	88	103	93
410-50281-9	7551-P3 (3)	114	81	96	93
410-50281-11	Pipe 53 (2)	112	72	103	110
410-50281-12	1044-P4 (3)	111	81	103	97
410-50281-13	Pipe 55 (2)	93	75	89	83
410-50281-14	Pipe 78 (2)	87	77	82	78
410-50281-15	Pipe 79 (2)	86	84	83	83
410-50281-15 - DL	Pipe 79 (2)	91	86	82	82
410-50281-16	7551-P7 (3)	73	78	65	68
410-50281-17	Pipe 82 (2)	121	95	103	92
410-50281-18	7551-P6 (3)	85	91	81	85
410-50281-18 - DL	7551-P6 (3)	79	82	77	79
410-50281-19	Pipe 81 (2)	115	81	100	100
410-50281-20	Pipe 83 (2)	119	83	99	93
410-50281-21	Pipe 80 (2)	114	87	94	99
410-50281-22	Pipe 50 (2)	122	87	103	92
410-50281-23	Pipe 49 (2)	114	78	104	98
410-50281-24	Pipe 45 (2)	79	66	76	72
410-50281-25	Pipe 47 (2)	82	68	79	72
410-50281-26	Pipe 46 (2)	84	72	82	78
410-50281-27	Pipe 48 (2)	115	80	105	99
410-50281-28	1043-P5 (3)	116	82	101	98
410-50281-29	1043-P4 (3)	116	80	103	98
410-50281-30	1043-P1 (3)	114	81	105	97
410-50281-31	Pipe 51 (2)	121	67	106	108
410-50281-32	Pipe 52 (2)	116	82	103	98
LCS 410-158553/4	Lab Control Sample	108	95	97	97
LCS 410-159034/5	Lab Control Sample	107	94	99	99
LCS 410-159050/4	Lab Control Sample	98	87	97	92
LCS 410-159518/4	Lab Control Sample	97	87	95	91
LCSD 410-158553/5	Lab Control Sample Dup	103	94	95	97
LCSD 410-159034/6	Lab Control Sample Dup	106	94	97	98
LCSD 410-159050/5	Lab Control Sample Dup	97	88	97	91
LCSD 410-159518/5	Lab Control Sample Dup	99	86	96	90
MB 410-158553/7	Method Blank	108	87	100	94
MB 410-159034/10	Method Blank	107	86	100	94
MB 410-159050/7	Method Blank	102	86	97	92
MB 410-159518/7	Method Blank	103	86	98	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Job ID: 410-50281-1
Project/Site: PBF Logistics

TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-50281-10	Trip Blank	98	100	105	97
LCS 410-158775/4	Lab Control Sample	100	102	105	98
LCSD 410-158775/5	Lab Control Sample Dup	100	101	104	97
MB 410-158775/6	Method Blank	97	101	105	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-50281-1	DUP-3	81	69	82
410-50281-1 MS	DUP-3	84	73	84
410-50281-1 MSD	DUP-3	90	73	91
410-50281-2	7551-P5 (3)	88	75	89
410-50281-3	Pipe 75 (2)	84	71	86
410-50281-4	7551-P1 (3)	85	72	87
410-50281-5	Pipe 87 (2)	81	71	86
410-50281-6	7551-P2 (3)	85	69	85
410-50281-6 - DL	7551-P2 (3)	84	67	82
410-50281-7	Pipe 77 (2)	73	82	80
410-50281-8	Pipe 76 (2)	90	79	88
410-50281-9	7551-P3 (3)	93	78	90
410-50281-11	Pipe 53 (2)	85	73	85
410-50281-12	1044-P4 (3)	91	73	84
410-50281-13	Pipe 55 (2)	82	65	77
410-50281-14	Pipe 78 (2)	91	81	89
410-50281-15	Pipe 79 (2)	87	77	83
410-50281-16	7551-P7 (3)	90	79	87
410-50281-17	Pipe 82 (2)	79	72	87
410-50281-18	7551-P6 (3)	80	69	82
410-50281-19	Pipe 81 (2)	81	65	79
410-50281-20	Pipe 83 (2)	89	75	86
410-50281-21	Pipe 80 (2)	86	75	87
410-50281-22	Pipe 50 (2)	82	65	74
410-50281-23	Pipe 49 (2)	91	73	85
410-50281-24	Pipe 45 (2)	81	66	76
410-50281-25	Pipe 47 (2)	68	59	66
410-50281-26	Pipe 46 (2)	69	49	75
410-50281-27	Pipe 48 (2)	72	62	76
410-50281-28	1043-P5 (3)	83	72	79
410-50281-29	1043-P4 (3)	84	71	85
410-50281-30	1043-P1 (3)	66	56	74

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 410-50281-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-50281-31	Pipe 51 (2)	89	76	101
410-50281-32	Pipe 52 (2)	70	58	68
LCS 410-158484/2-A	Lab Control Sample	76	67	88
LCS 410-158485/2-A	Lab Control Sample	93	78	92
LCS 410-158764/2-A	Lab Control Sample	98	79	92
LCS 410-159307/2-A	Lab Control Sample	85	72	97
MB 410-158484/1-A	Method Blank	83	75	97
MB 410-158485/1-A	Method Blank	94	83	94
MB 410-158764/1-A	Method Blank	91	79	94
MB 410-159307/1-A	Method Blank	86	75	98

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-158553/7
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/10/21 11:44	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/10/21 11:44	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Toluene	ND		5.0	0.60	ug/Kg			08/10/21 11:44	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/10/21 11:44	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Benzene	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/10/21 11:44	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/10/21 11:44	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/10/21 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*		*08/10/21 11:44*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*		*08/10/21 11:44*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*		*08/10/21 11:44*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*		*08/10/21 11:44*	*1*

Lab Sample ID: LCS 410-158553/4
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	18.9		ug/Kg		95	78 - 120
1,2-Dichloroethane	20.0	16.5		ug/Kg		83	71 - 128
1,3,5-Trimethylbenzene	20.0	17.9		ug/Kg		89	73 - 120
Toluene	20.0	17.4		ug/Kg		87	80 - 120
Xylenes, Total	60.0	51.9		ug/Kg		87	75 - 120
Methyl tertiary butyl ether	20.0	16.8		ug/Kg		84	72 - 120
Benzene	20.0	19.8		ug/Kg		99	80 - 120
Naphthalene	20.0	15.4		ug/Kg		77	48 - 130
1,2,4-Trimethylbenzene	20.0	17.8		ug/Kg		89	73 - 120
Isopropylbenzene	20.0	16.9		ug/Kg		85	77 - 120
1,2-Dibromoethane	20.0	17.6		ug/Kg		88	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: LCSD 410-158553/5
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	18.8		ug/Kg		94	78 - 120	0	30
1,2-Dichloroethane	20.0	16.5		ug/Kg		82	71 - 128	0	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-158553/5
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	18.0		ug/Kg		90	73 - 120	1	30
Toluene			20.0	17.8		ug/Kg		89	80 - 120	2	30
Xylenes, Total			60.0	51.9		ug/Kg		87	75 - 120	0	30
Methyl tertiary butyl ether			20.0	15.8		ug/Kg		79	72 - 120	6	30
Benzene			20.0	19.7		ug/Kg		99	80 - 120	0	30
Naphthalene			20.0	14.0		ug/Kg		70	48 - 130	9	30
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		90	73 - 120	1	30
Isopropylbenzene			20.0	16.9		ug/Kg		84	77 - 120	0	30
1,2-Dibromoethane			20.0	17.0		ug/Kg		85	76 - 120	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: MB 410-159034/10
Matrix: Solid
Analysis Batch: 159034

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/11/21 12:19	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/11/21 12:19	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/11/21 12:19	1
Toluene	ND		5.0	0.60	ug/Kg			08/11/21 12:19	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/11/21 12:19	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/11/21 12:19	1
Benzene	ND		5.0	0.50	ug/Kg			08/11/21 12:19	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/11/21 12:19	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/11/21 12:19	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/11/21 12:19	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/11/21 12:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*		*08/11/21 12:19*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*		*08/11/21 12:19*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*		*08/11/21 12:19*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*		*08/11/21 12:19*	*1*

Lab Sample ID: LCS 410-159034/5
Matrix: Solid
Analysis Batch: 159034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			20.0	19.4		ug/Kg		97	78 - 120
1,2-Dichloroethane			20.0	17.1		ug/Kg		86	71 - 128
1,3,5-Trimethylbenzene			20.0	18.3		ug/Kg		91	73 - 120
Toluene			20.0	18.3		ug/Kg		91	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-159034/5
Matrix: Solid
Analysis Batch: 159034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			60.0	53.2		ug/Kg		89	75 - 120		
Methyl tertiary butyl ether			20.0	16.5		ug/Kg		83	72 - 120		
Benzene			20.0	19.9		ug/Kg		100	80 - 120		
Naphthalene			20.0	15.1		ug/Kg		76	48 - 130		
1,2,4-Trimethylbenzene			20.0	18.2		ug/Kg		91	73 - 120		
Isopropylbenzene			20.0	17.1		ug/Kg		86	77 - 120		
1,2-Dibromoethane			20.0	18.1		ug/Kg		91	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*99*		*52 - 141*

Lab Sample ID: LCSD 410-159034/6
Matrix: Solid
Analysis Batch: 159034

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	19.2		ug/Kg		96	78 - 120	1	30
1,2-Dichloroethane			20.0	16.6		ug/Kg		83	71 - 128	3	30
1,3,5-Trimethylbenzene			20.0	18.3		ug/Kg		91	73 - 120	0	30
Toluene			20.0	18.1		ug/Kg		91	80 - 120	1	30
Xylenes, Total			60.0	53.1		ug/Kg		89	75 - 120	0	30
Methyl tertiary butyl ether			20.0	16.5		ug/Kg		83	72 - 120	0	30
Benzene			20.0	19.9		ug/Kg		100	80 - 120	0	30
Naphthalene			20.0	15.2		ug/Kg		76	48 - 130	0	30
1,2,4-Trimethylbenzene			20.0	18.2		ug/Kg		91	73 - 120	0	30
Isopropylbenzene			20.0	16.9		ug/Kg		85	77 - 120	1	30
1,2-Dibromoethane			20.0	18.0		ug/Kg		90	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: MB 410-159050/7
Matrix: Solid
Analysis Batch: 159050

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/11/21 11:35	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/11/21 11:35	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/11/21 11:35	50
Toluene	ND		250	30	ug/Kg			08/11/21 11:35	50
Xylenes, Total	ND		500	70	ug/Kg			08/11/21 11:35	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/11/21 11:35	50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-159050/7
Matrix: Solid
Analysis Batch: 159050

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		250	25	ug/Kg			08/11/21 11:35	50
Naphthalene	ND		250	100	ug/Kg			08/11/21 11:35	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/11/21 11:35	50
Isopropylbenzene	ND		250	20	ug/Kg			08/11/21 11:35	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/11/21 11:35	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*		*08/11/21 11:35*	*50*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*		*08/11/21 11:35*	*50*
Dibromofluoromethane (Surr)	*97*		*50 - 141*		*08/11/21 11:35*	*50*
Toluene-d8 (Surr)	*92*		*52 - 141*		*08/11/21 11:35*	*50*

Lab Sample ID: LCS 410-159050/4
Matrix: Solid
Analysis Batch: 159050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	945		ug/Kg		95	78 - 120		
1,2-Dichloroethane			1000	887		ug/Kg		89	71 - 128		
1,3,5-Trimethylbenzene			1000	860		ug/Kg		86	73 - 120		
Toluene			1000	952		ug/Kg		95	80 - 120		
Xylenes, Total			3000	2890		ug/Kg		96	75 - 120		
Methyl tertiary butyl ether			1000	941		ug/Kg		94	72 - 120		
Benzene			1000	975		ug/Kg		97	80 - 120		
Naphthalene			1000	894		ug/Kg		89	48 - 130		
1,2,4-Trimethylbenzene			1000	851		ug/Kg		85	73 - 120		
Isopropylbenzene			1000	975		ug/Kg		97	77 - 120		
1,2-Dibromoethane			1000	957		ug/Kg		96	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: LCSD 410-159050/5
Matrix: Solid
Analysis Batch: 159050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	932		ug/Kg		93	78 - 120	1	30
1,2-Dichloroethane			1000	886		ug/Kg		89	71 - 128	0	30
1,3,5-Trimethylbenzene			1000	848		ug/Kg		85	73 - 120	1	30
Toluene			1000	950		ug/Kg		95	80 - 120	0	30
Xylenes, Total			3000	2880		ug/Kg		96	75 - 120	0	30
Methyl tertiary butyl ether			1000	925		ug/Kg		92	72 - 120	2	30
Benzene			1000	969		ug/Kg		97	80 - 120	1	30
Naphthalene			1000	915		ug/Kg		92	48 - 130	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-159050/5
Matrix: Solid
Analysis Batch: 159050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			1000	845		ug/Kg		85	73 - 120	1	30
Isopropylbenzene			1000	957		ug/Kg		96	77 - 120	2	30
1,2-Dibromoethane			1000	949		ug/Kg		95	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*54 - 135*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*91*		*52 - 141*

Lab Sample ID: MB 410-159518/7
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/12/21 11:12	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/12/21 11:12	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/12/21 11:12	50
Toluene	ND		250	30	ug/Kg			08/12/21 11:12	50
Xylenes, Total	ND		500	70	ug/Kg			08/12/21 11:12	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/12/21 11:12	50
Benzene	ND		250	25	ug/Kg			08/12/21 11:12	50
Naphthalene	ND		250	100	ug/Kg			08/12/21 11:12	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/12/21 11:12	50
Isopropylbenzene	ND		250	20	ug/Kg			08/12/21 11:12	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/12/21 11:12	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*		*08/12/21 11:12*	*50*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*		*08/12/21 11:12*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*08/12/21 11:12*	*50*
Toluene-d8 (Surr)	*92*		*52 - 141*		*08/12/21 11:12*	*50*

Lab Sample ID: LCS 410-159518/4
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	958		ug/Kg		96	78 - 120		
1,2-Dichloroethane			1000	935		ug/Kg		93	71 - 128		
1,3,5-Trimethylbenzene			1000	875		ug/Kg		87	73 - 120		
Toluene			1000	969		ug/Kg		97	80 - 120		
Xylenes, Total			3000	2950		ug/Kg		98	75 - 120		
Methyl tertiary butyl ether			1000	960		ug/Kg		96	72 - 120		
Benzene			1000	1010		ug/Kg		101	80 - 120		
Naphthalene			1000	919		ug/Kg		92	48 - 130		
1,2,4-Trimethylbenzene			1000	874		ug/Kg		87	73 - 120		
Isopropylbenzene			1000	991		ug/Kg		99	77 - 120		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-159518/4
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			1000	979		ug/Kg		98	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*91*		*52 - 141*

Lab Sample ID: LCSD 410-159518/5
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	941		ug/Kg		94	78 - 120	2	30
1,2-Dichloroethane			1000	950		ug/Kg		95	71 - 128	2	30
1,3,5-Trimethylbenzene			1000	873		ug/Kg		87	73 - 120	0	30
Toluene			1000	961		ug/Kg		96	80 - 120	1	30
Xylenes, Total			3000	2910		ug/Kg		97	75 - 120	1	30
Methyl tertiary butyl ether			1000	980		ug/Kg		98	72 - 120	2	30
Benzene			1000	1000		ug/Kg		100	80 - 120	1	30
Naphthalene			1000	924		ug/Kg		92	48 - 130	1	30
1,2,4-Trimethylbenzene			1000	866		ug/Kg		87	73 - 120	1	30
Isopropylbenzene			1000	981		ug/Kg		98	77 - 120	1	30
1,2-Dibromoethane			1000	970		ug/Kg		97	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*
Dibromofluoromethane (Surr)	*96*		*50 - 141*
Toluene-d8 (Surr)	*90*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-158775/6
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/10/21 20:07	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/10/21 20:07	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/10/21 20:07	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:07	1
Toluene	ND		1.0	0.30	ug/L			08/10/21 20:07	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/10/21 20:07	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/10/21 20:07	1
Benzene	ND		1.0	0.30	ug/L			08/10/21 20:07	1
Naphthalene	ND		5.0	1.0	ug/L			08/10/21 20:07	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/10/21 20:07	1

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-158775/6
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/10/21 20:07*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/10/21 20:07*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*08/10/21 20:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/10/21 20:07*	*1*

Lab Sample ID: LCS 410-158775/4
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	18.6		ug/L		93	77 - 120		
Ethylbenzene			20.0	18.8		ug/L		94	80 - 120		
1,2-Dichloroethane			20.0	17.9		ug/L		89	73 - 124		
1,3,5-Trimethylbenzene			20.0	18.1		ug/L		91	75 - 120		
Toluene			20.0	18.4		ug/L		92	80 - 120		
Xylenes, Total			60.0	55.4		ug/L		92	80 - 120		
Methyl tertiary butyl ether			20.0	18.8		ug/L		94	69 - 122		
Benzene			20.0	18.9		ug/L		95	80 - 120		
Naphthalene			20.0	18.0		ug/L		90	53 - 124		
1,2,4-Trimethylbenzene			20.0	17.9		ug/L		90	75 - 120		
Isopropylbenzene			20.0	18.5		ug/L		92	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 410-158775/5
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	19.7		ug/L		98	77 - 120	5	30
Ethylbenzene			20.0	20.4		ug/L		102	80 - 120	8	30
1,2-Dichloroethane			20.0	19.4		ug/L		97	73 - 124	8	30
1,3,5-Trimethylbenzene			20.0	19.6		ug/L		98	75 - 120	8	30
Toluene			20.0	19.9		ug/L		99	80 - 120	7	30
Xylenes, Total			60.0	59.7		ug/L		100	80 - 120	7	30
Methyl tertiary butyl ether			20.0	20.6		ug/L		103	69 - 122	9	30
Benzene			20.0	20.8		ug/L		104	80 - 120	10	30
Naphthalene			20.0	19.8		ug/L		99	53 - 124	9	30
1,2,4-Trimethylbenzene			20.0	19.6		ug/L		98	75 - 120	9	30
Isopropylbenzene			20.0	19.8		ug/L		99	80 - 120	7	30

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-158775/5
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-158484/1-A
Matrix: Solid
Analysis Batch: 159419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158484

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Chrysene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Fluorene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Phenanthrene	ND		17	4.0	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Pyrene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		39 - 100	08/10/21 09:43	08/12/21 00:33	1
Nitrobenzene-d5 (Surr)	75		32 - 97	08/10/21 09:43	08/12/21 00:33	1
p-Terphenyl-d14 (Surr)	97		45 - 108	08/10/21 09:43	08/12/21 00:33	1

Lab Sample ID: LCS 410-158484/2-A
Matrix: Solid
Analysis Batch: 159419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1350		ug/Kg		81	75 - 120
Benzo[a]anthracene	1670	1370		ug/Kg		82	73 - 120
Benzo[a]pyrene	1670	1530		ug/Kg		92	80 - 123
Benzo[b]fluoranthene	1670	1460		ug/Kg		87	63 - 120
Benzo[g,h,i]perylene	1670	1780		ug/Kg		107	77 - 120
Chrysene	1670	1430		ug/Kg		86	66 - 120
Fluorene	1670	1360		ug/Kg		81	68 - 120
Phenanthrene	1670	1310		ug/Kg		79	74 - 120
Pyrene	1670	1320		ug/Kg		79	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	76		39 - 100
Nitrobenzene-d5 (Surr)	67		32 - 97
p-Terphenyl-d14 (Surr)	88		45 - 108

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-158485/1-A
Matrix: Solid
Analysis Batch: 158700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Chrysene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Fluorene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Phenanthrene	ND		17	4.0	ug/Kg		08/10/21 09:37	08/10/21 15:51	1
Pyrene	ND		17	3.3	ug/Kg		08/10/21 09:37	08/10/21 15:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*94*		*39 - 100*	*08/10/21 09:37*	*08/10/21 15:51*	*1*
Nitrobenzene-d5 (Surr)	*83*		*32 - 97*	*08/10/21 09:37*	*08/10/21 15:51*	*1*
p-Terphenyl-d14 (Surr)	*94*		*45 - 108*	*08/10/21 09:37*	*08/10/21 15:51*	*1*

Lab Sample ID: LCS 410-158485/2-A
Matrix: Solid
Analysis Batch: 158700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1580		ug/Kg		95	75 - 120
Benzo[a]anthracene	1670	1580		ug/Kg		95	73 - 120
Benzo[a]pyrene	1670	1640		ug/Kg		98	80 - 123
Benzo[b]fluoranthene	1670	1540		ug/Kg		92	63 - 120
Benzo[g,h,i]perylene	1670	1640		ug/Kg		98	77 - 120
Chrysene	1670	1540		ug/Kg		92	66 - 120
Fluorene	1670	1710		ug/Kg		103	68 - 120
Phenanthrene	1670	1540		ug/Kg		92	74 - 120
Pyrene	1670	1570		ug/Kg		94	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*93*		*39 - 100*
Nitrobenzene-d5 (Surr)	*78*		*32 - 97*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*

Lab Sample ID: 410-50281-1 MS
Matrix: Solid
Analysis Batch: 158700

Client Sample ID: DUP-3
Prep Type: Total/NA
Prep Batch: 158485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	7.0	J	1940	1710		ug/Kg	☼	88	75 - 120
Benzo[a]anthracene	19	FH F2	1940	1730		ug/Kg	☼	88	73 - 120
Benzo[a]pyrene	22		1940	1820		ug/Kg	☼	93	80 - 123
Benzo[b]fluoranthene	25		1940	1700		ug/Kg	☼	86	63 - 120
Benzo[g,h,i]perylene	24		1940	1890		ug/Kg	☼	96	77 - 120
Chrysene	20	F2	1940	1680		ug/Kg	☼	86	66 - 120
Fluorene	4.9	J	1940	1790		ug/Kg	☼	92	68 - 120
Phenanthrene	26	FH F2	1940	1680		ug/Kg	☼	85	74 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-50281-1 MS
Matrix: Solid
Analysis Batch: 158700

Client Sample ID: DUP-3
Prep Type: Total/NA
Prep Batch: 158485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	34	FH F2	1940	1740		ug/Kg	☼	88	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*

Lab Sample ID: 410-50281-1 MSD
Matrix: Solid
Analysis Batch: 158700

Client Sample ID: DUP-3
Prep Type: Total/NA
Prep Batch: 158485

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	7.0	J	1940	1940		ug/Kg	☼	100	75 - 120	13	30
Benzo[a]anthracene	19	FH F2	1940	2400	FH F2	ug/Kg	☼	123	73 - 120	33	30
Benzo[a]pyrene	22		1940	2300		ug/Kg	☼	117	80 - 123	23	30
Benzo[b]fluoranthene	25		1940	2170		ug/Kg	☼	111	63 - 120	25	30
Benzo[g,h,i]perylene	24		1940	2250		ug/Kg	☼	115	77 - 120	18	30
Chrysene	20	F2	1940	2310	F2	ug/Kg	☼	118	66 - 120	31	30
Fluorene	4.9	J	1940	1950		ug/Kg	☼	101	68 - 120	9	30
Phenanthrene	26	FH F2	1940	2660	FH F2	ug/Kg	☼	136	74 - 120	45	30
Pyrene	34	FH F2	1940	2730	FH F2	ug/Kg	☼	139	70 - 120	44	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*90*		*39 - 100*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*
p-Terphenyl-d14 (Surr)	*91*		*45 - 108*

Lab Sample ID: MB 410-158764/1-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Chrysene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Fluorene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Phenanthrene	ND		17	4.0	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Pyrene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/10/21 17:56*	*08/11/21 08:09*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*08/10/21 17:56*	*08/11/21 08:09*	*1*
p-Terphenyl-d14 (Surr)	*94*		*45 - 108*	*08/10/21 17:56*	*08/11/21 08:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-158764/2-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1650		ug/Kg		99	75 - 120
Benzo[a]anthracene	1670	1670		ug/Kg		100	73 - 120
Benzo[a]pyrene	1670	1720		ug/Kg		103	80 - 123
Benzo[b]fluoranthene	1670	1510		ug/Kg		91	63 - 120
Benzo[g,h,i]perylene	1670	1710		ug/Kg		103	77 - 120
Chrysene	1670	1630		ug/Kg		98	66 - 120
Fluorene	1670	1800		ug/Kg		108	68 - 120
Phenanthrene	1670	1610		ug/Kg		97	74 - 120
Pyrene	1670	1640		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*98*		*39 - 100*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*

Lab Sample ID: MB 410-159307/1-A
Matrix: Solid
Analysis Batch: 159845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159307

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Chrysene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Fluorene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Phenanthrene	ND		17	4.0	ug/Kg		08/11/21 17:48	08/12/21 20:01	1
Pyrene	ND		17	3.3	ug/Kg		08/11/21 17:48	08/12/21 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*08/11/21 17:48*	*08/12/21 20:01*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/11/21 17:48*	*08/12/21 20:01*	*1*
p-Terphenyl-d14 (Surr)	*98*		*45 - 108*	*08/11/21 17:48*	*08/12/21 20:01*	*1*

Lab Sample ID: LCS 410-159307/2-A
Matrix: Solid
Analysis Batch: 159845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159307

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1450		ug/Kg		87	75 - 120
Benzo[a]anthracene	1670	1500		ug/Kg		90	73 - 120
Benzo[a]pyrene	1670	1640		ug/Kg		98	80 - 123
Benzo[b]fluoranthene	1670	1520		ug/Kg		91	63 - 120
Benzo[g,h,i]perylene	1670	1860		ug/Kg		112	77 - 120
Chrysene	1670	1520		ug/Kg		91	66 - 120
Fluorene	1670	1520		ug/Kg		91	68 - 120
Phenanthrene	1670	1410		ug/Kg		85	74 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-159307/2-A
Matrix: Solid
Analysis Batch: 159845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159307

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Pyrene			1670	1420		ug/Kg		85	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*
p-Terphenyl-d14 (Surr)	*97*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-157947/1-A
Matrix: Solid
Analysis Batch: 159302

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/09/21 03:32	08/11/21 13:25	1

Lab Sample ID: LCS 410-157947/2-A
Matrix: Solid
Analysis Batch: 159302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157947

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			5.00	4.66		mg/Kg		93	80 - 120		

Lab Sample ID: 410-50281-28 MS
Matrix: Solid
Analysis Batch: 159302

Client Sample ID: 1043-P5 (3)
Prep Type: Total/NA
Prep Batch: 157947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	560	F2	5.40	797	4	mg/Kg	☼	4308	75 - 125		

Lab Sample ID: 410-50281-28 MSD
Matrix: Solid
Analysis Batch: 159302

Client Sample ID: 1043-P5 (3)
Prep Type: Total/NA
Prep Batch: 157947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	560	F2	5.09	1450	4 F2	mg/Kg	☼	17380	75 - 125	58	20

Lab Sample ID: 410-50281-28 DU
Matrix: Solid
Analysis Batch: 159302

Client Sample ID: 1043-P5 (3)
Prep Type: Total/NA
Prep Batch: 157947

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	560	F2	563		mg/Kg	☼	0.2	20

Lab Sample ID: MB 410-157948/1-A
Matrix: Solid
Analysis Batch: 159680

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157948

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/09/21 03:39	08/12/21 09:38	1

Method: 6010C - Metals (ICP)

Lab Sample ID: LCS 410-157948/2-A
Matrix: Solid
Analysis Batch: 159680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157948

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			5.00	5.37		mg/Kg		107	80 - 120		

Lab Sample ID: 410-50281-13 MS
Matrix: Solid
Analysis Batch: 159680

Client Sample ID: Pipe 55 (2)
Prep Type: Total/NA
Prep Batch: 157948

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	750	F2	5.96	2750	E 4	mg/Kg	☼	33531	75 - 125		

Lab Sample ID: 410-50281-13 MSD
Matrix: Solid
Analysis Batch: 159680

Client Sample ID: Pipe 55 (2)
Prep Type: Total/NA
Prep Batch: 157948

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	750	F2	6.56	1400	4 F2	mg/Kg	☼	9952	75 - 125	65	20

Lab Sample ID: 410-50281-13 DU
Matrix: Solid
Analysis Batch: 159680

Client Sample ID: Pipe 55 (2)
Prep Type: Total/NA
Prep Batch: 157948

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	750	F2		1080	F3	mg/Kg	☼			36	20

GC/MS VOA

Prep Batch: 157883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	5035	
410-50281-2	7551-P5 (3)	Total/NA	Solid	5035	
410-50281-4	7551-P1 (3)	Total/NA	Solid	5035	
410-50281-6	7551-P2 (3)	Total/NA	Solid	5035	
410-50281-8	Pipe 76 (2)	Total/NA	Solid	5035	
410-50281-9	7551-P3 (3)	Total/NA	Solid	5035	
410-50281-11 - RA	Pipe 53 (2)	Total/NA	Solid	5035	
410-50281-11	Pipe 53 (2)	Total/NA	Solid	5035	
410-50281-12	1044-P4 (3)	Total/NA	Solid	5035	
410-50281-17	Pipe 82 (2)	Total/NA	Solid	5035	
410-50281-19	Pipe 81 (2)	Total/NA	Solid	5035	
410-50281-20	Pipe 83 (2)	Total/NA	Solid	5035	
410-50281-21	Pipe 80 (2)	Total/NA	Solid	5035	
410-50281-22	Pipe 50 (2)	Total/NA	Solid	5035	
410-50281-23	Pipe 49 (2)	Total/NA	Solid	5035	
410-50281-27	Pipe 48 (2)	Total/NA	Solid	5035	
410-50281-28	1043-P5 (3)	Total/NA	Solid	5035	
410-50281-29	1043-P4 (3)	Total/NA	Solid	5035	
410-50281-30	1043-P1 (3)	Total/NA	Solid	5035	
410-50281-31 - RA	Pipe 51 (2)	Total/NA	Solid	5035	
410-50281-31	Pipe 51 (2)	Total/NA	Solid	5035	
410-50281-32	Pipe 52 (2)	Total/NA	Solid	5035	

Prep Batch: 157884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-3	Pipe 75 (2)	Total/NA	Solid	5035	
410-50281-5	Pipe 87 (2)	Total/NA	Solid	5035	
410-50281-7	Pipe 77 (2)	Total/NA	Solid	5035	
410-50281-13	Pipe 55 (2)	Total/NA	Solid	5035	
410-50281-14	Pipe 78 (2)	Total/NA	Solid	5035	
410-50281-15	Pipe 79 (2)	Total/NA	Solid	5035	
410-50281-15 - DL	Pipe 79 (2)	Total/NA	Solid	5035	
410-50281-16	7551-P7 (3)	Total/NA	Solid	5035	
410-50281-18 - DL	7551-P6 (3)	Total/NA	Solid	5035	
410-50281-18	7551-P6 (3)	Total/NA	Solid	5035	
410-50281-24	Pipe 45 (2)	Total/NA	Solid	5035	
410-50281-25	Pipe 47 (2)	Total/NA	Solid	5035	
410-50281-26	Pipe 46 (2)	Total/NA	Solid	5035	

Analysis Batch: 158553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	8260C	157883
410-50281-2	7551-P5 (3)	Total/NA	Solid	8260C	157883
410-50281-4	7551-P1 (3)	Total/NA	Solid	8260C	157883
410-50281-6	7551-P2 (3)	Total/NA	Solid	8260C	157883
410-50281-8	Pipe 76 (2)	Total/NA	Solid	8260C	157883
410-50281-9	7551-P3 (3)	Total/NA	Solid	8260C	157883
410-50281-11	Pipe 53 (2)	Total/NA	Solid	8260C	157883
410-50281-12	1044-P4 (3)	Total/NA	Solid	8260C	157883
410-50281-17	Pipe 82 (2)	Total/NA	Solid	8260C	157883
410-50281-20	Pipe 83 (2)	Total/NA	Solid	8260C	157883

GC/MS VOA (Continued)

Analysis Batch: 158553 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-22	Pipe 50 (2)	Total/NA	Solid	8260C	157883
410-50281-23	Pipe 49 (2)	Total/NA	Solid	8260C	157883
410-50281-27	Pipe 48 (2)	Total/NA	Solid	8260C	157883
410-50281-29	1043-P4 (3)	Total/NA	Solid	8260C	157883
410-50281-30	1043-P1 (3)	Total/NA	Solid	8260C	157883
MB 410-158553/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-158553/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-158553/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 158775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-10	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-158775/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-158775/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-158775/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Analysis Batch: 159034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-11 - RA	Pipe 53 (2)	Total/NA	Solid	8260C	157883
410-50281-19	Pipe 81 (2)	Total/NA	Solid	8260C	157883
410-50281-21	Pipe 80 (2)	Total/NA	Solid	8260C	157883
410-50281-28	1043-P5 (3)	Total/NA	Solid	8260C	157883
410-50281-31	Pipe 51 (2)	Total/NA	Solid	8260C	157883
410-50281-32	Pipe 52 (2)	Total/NA	Solid	8260C	157883
MB 410-159034/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-159034/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159034/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 159050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-3	Pipe 75 (2)	Total/NA	Solid	8260C	157884
410-50281-5	Pipe 87 (2)	Total/NA	Solid	8260C	157884
410-50281-7	Pipe 77 (2)	Total/NA	Solid	8260C	157884
410-50281-13	Pipe 55 (2)	Total/NA	Solid	8260C	157884
410-50281-14	Pipe 78 (2)	Total/NA	Solid	8260C	157884
410-50281-15	Pipe 79 (2)	Total/NA	Solid	8260C	157884
410-50281-16	7551-P7 (3)	Total/NA	Solid	8260C	157884
410-50281-18	7551-P6 (3)	Total/NA	Solid	8260C	157884
410-50281-24	Pipe 45 (2)	Total/NA	Solid	8260C	157884
410-50281-25	Pipe 47 (2)	Total/NA	Solid	8260C	157884
410-50281-26	Pipe 46 (2)	Total/NA	Solid	8260C	157884
MB 410-159050/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159050/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159050/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 159083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-31 - RA	Pipe 51 (2)	Total/NA	Solid	8260C	157883
MB 410-159083/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159083/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159083/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS VOA

Analysis Batch: 159518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-15 - DL	Pipe 79 (2)	Total/NA	Solid	8260C	157884
410-50281-18 - DL	7551-P6 (3)	Total/NA	Solid	8260C	157884
MB 410-159518/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159518/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159518/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 158484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-11	Pipe 53 (2)	Total/NA	Solid	3546	
410-50281-12	1044-P4 (3)	Total/NA	Solid	3546	
410-50281-13	Pipe 55 (2)	Total/NA	Solid	3546	
410-50281-22	Pipe 50 (2)	Total/NA	Solid	3546	
410-50281-23	Pipe 49 (2)	Total/NA	Solid	3546	
410-50281-24	Pipe 45 (2)	Total/NA	Solid	3546	
410-50281-25	Pipe 47 (2)	Total/NA	Solid	3546	
410-50281-26	Pipe 46 (2)	Total/NA	Solid	3546	
MB 410-158484/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158484/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 158485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	3546	
410-50281-2	7551-P5 (3)	Total/NA	Solid	3546	
410-50281-3	Pipe 75 (2)	Total/NA	Solid	3546	
410-50281-4	7551-P1 (3)	Total/NA	Solid	3546	
410-50281-5	Pipe 87 (2)	Total/NA	Solid	3546	
410-50281-6	7551-P2 (3)	Total/NA	Solid	3546	
410-50281-6 - DL	7551-P2 (3)	Total/NA	Solid	3546	
410-50281-7	Pipe 77 (2)	Total/NA	Solid	3546	
410-50281-8	Pipe 76 (2)	Total/NA	Solid	3546	
410-50281-9	7551-P3 (3)	Total/NA	Solid	3546	
410-50281-14	Pipe 78 (2)	Total/NA	Solid	3546	
410-50281-15	Pipe 79 (2)	Total/NA	Solid	3546	
410-50281-16	7551-P7 (3)	Total/NA	Solid	3546	
410-50281-18	7551-P6 (3)	Total/NA	Solid	3546	
410-50281-27	Pipe 48 (2)	Total/NA	Solid	3546	
410-50281-28	1043-P5 (3)	Total/NA	Solid	3546	
410-50281-29	1043-P4 (3)	Total/NA	Solid	3546	
410-50281-30	1043-P1 (3)	Total/NA	Solid	3546	
410-50281-31	Pipe 51 (2)	Total/NA	Solid	3546	
410-50281-32	Pipe 52 (2)	Total/NA	Solid	3546	
MB 410-158485/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158485/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-50281-1 MS	DUP-3	Total/NA	Solid	3546	
410-50281-1 MSD	DUP-3	Total/NA	Solid	3546	

Analysis Batch: 158700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	8270D	158485

GC/MS Semi VOA (Continued)

Analysis Batch: 158700 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-2	7551-P5 (3)	Total/NA	Solid	8270D	158485
410-50281-3	Pipe 75 (2)	Total/NA	Solid	8270D	158485
410-50281-4	7551-P1 (3)	Total/NA	Solid	8270D	158485
410-50281-5	Pipe 87 (2)	Total/NA	Solid	8270D	158485
410-50281-6	7551-P2 (3)	Total/NA	Solid	8270D	158485
410-50281-7	Pipe 77 (2)	Total/NA	Solid	8270D	158485
410-50281-8	Pipe 76 (2)	Total/NA	Solid	8270D	158485
410-50281-9	7551-P3 (3)	Total/NA	Solid	8270D	158485
410-50281-14	Pipe 78 (2)	Total/NA	Solid	8270D	158485
410-50281-15	Pipe 79 (2)	Total/NA	Solid	8270D	158485
410-50281-16	7551-P7 (3)	Total/NA	Solid	8270D	158485
410-50281-18	7551-P6 (3)	Total/NA	Solid	8270D	158485
410-50281-27	Pipe 48 (2)	Total/NA	Solid	8270D	158485
410-50281-28	1043-P5 (3)	Total/NA	Solid	8270D	158485
410-50281-29	1043-P4 (3)	Total/NA	Solid	8270D	158485
410-50281-30	1043-P1 (3)	Total/NA	Solid	8270D	158485
410-50281-31	Pipe 51 (2)	Total/NA	Solid	8270D	158485
410-50281-32	Pipe 52 (2)	Total/NA	Solid	8270D	158485
MB 410-158485/1-A	Method Blank	Total/NA	Solid	8270D	158485
LCS 410-158485/2-A	Lab Control Sample	Total/NA	Solid	8270D	158485
410-50281-1 MS	DUP-3	Total/NA	Solid	8270D	158485
410-50281-1 MSD	DUP-3	Total/NA	Solid	8270D	158485

Prep Batch: 158764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-19	Pipe 81 (2)	Total/NA	Solid	3546	
410-50281-20	Pipe 83 (2)	Total/NA	Solid	3546	
410-50281-21	Pipe 80 (2)	Total/NA	Solid	3546	
MB 410-158764/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158764/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 158947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-6 - DL	7551-P2 (3)	Total/NA	Solid	8270D	158485
410-50281-19	Pipe 81 (2)	Total/NA	Solid	8270D	158764
410-50281-20	Pipe 83 (2)	Total/NA	Solid	8270D	158764
410-50281-21	Pipe 80 (2)	Total/NA	Solid	8270D	158764
MB 410-158764/1-A	Method Blank	Total/NA	Solid	8270D	158764
LCS 410-158764/2-A	Lab Control Sample	Total/NA	Solid	8270D	158764

Prep Batch: 159307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-17	Pipe 82 (2)	Total/NA	Solid	3546	
MB 410-159307/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-159307/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 159419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-158484/1-A	Method Blank	Total/NA	Solid	8270D	158484
LCS 410-158484/2-A	Lab Control Sample	Total/NA	Solid	8270D	158484

GC/MS Semi VOA

Analysis Batch: 159422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-11	Pipe 53 (2)	Total/NA	Solid	8270D	158484
410-50281-12	1044-P4 (3)	Total/NA	Solid	8270D	158484
410-50281-13	Pipe 55 (2)	Total/NA	Solid	8270D	158484
410-50281-22	Pipe 50 (2)	Total/NA	Solid	8270D	158484
410-50281-23	Pipe 49 (2)	Total/NA	Solid	8270D	158484
410-50281-24	Pipe 45 (2)	Total/NA	Solid	8270D	158484
410-50281-25	Pipe 47 (2)	Total/NA	Solid	8270D	158484
410-50281-26	Pipe 46 (2)	Total/NA	Solid	8270D	158484

Analysis Batch: 159845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-17	Pipe 82 (2)	Total/NA	Solid	8270D	159307
MB 410-159307/1-A	Method Blank	Total/NA	Solid	8270D	159307
LCS 410-159307/2-A	Lab Control Sample	Total/NA	Solid	8270D	159307

Metals

Prep Batch: 157947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	3050B	
410-50281-2	7551-P5 (3)	Total/NA	Solid	3050B	
410-50281-3	Pipe 75 (2)	Total/NA	Solid	3050B	
410-50281-4	7551-P1 (3)	Total/NA	Solid	3050B	
410-50281-5	Pipe 87 (2)	Total/NA	Solid	3050B	
410-50281-7	Pipe 77 (2)	Total/NA	Solid	3050B	
410-50281-19	Pipe 81 (2)	Total/NA	Solid	3050B	
410-50281-20	Pipe 83 (2)	Total/NA	Solid	3050B	
410-50281-21	Pipe 80 (2)	Total/NA	Solid	3050B	
410-50281-22	Pipe 50 (2)	Total/NA	Solid	3050B	
410-50281-23	Pipe 49 (2)	Total/NA	Solid	3050B	
410-50281-24	Pipe 45 (2)	Total/NA	Solid	3050B	
410-50281-25	Pipe 47 (2)	Total/NA	Solid	3050B	
410-50281-26	Pipe 46 (2)	Total/NA	Solid	3050B	
410-50281-27	Pipe 48 (2)	Total/NA	Solid	3050B	
410-50281-28	1043-P5 (3)	Total/NA	Solid	3050B	
410-50281-29	1043-P4 (3)	Total/NA	Solid	3050B	
410-50281-30	1043-P1 (3)	Total/NA	Solid	3050B	
410-50281-31	Pipe 51 (2)	Total/NA	Solid	3050B	
410-50281-32	Pipe 52 (2)	Total/NA	Solid	3050B	
MB 410-157947/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-157947/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-50281-28 MS	1043-P5 (3)	Total/NA	Solid	3050B	
410-50281-28 MSD	1043-P5 (3)	Total/NA	Solid	3050B	
410-50281-28 DU	1043-P5 (3)	Total/NA	Solid	3050B	

Prep Batch: 157948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-6	7551-P2 (3)	Total/NA	Solid	3050B	
410-50281-8	Pipe 76 (2)	Total/NA	Solid	3050B	
410-50281-9	7551-P3 (3)	Total/NA	Solid	3050B	
410-50281-11	Pipe 53 (2)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 157948 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-12	1044-P4 (3)	Total/NA	Solid	3050B	
410-50281-13	Pipe 55 (2)	Total/NA	Solid	3050B	
410-50281-14	Pipe 78 (2)	Total/NA	Solid	3050B	
410-50281-15	Pipe 79 (2)	Total/NA	Solid	3050B	
410-50281-16	7551-P7 (3)	Total/NA	Solid	3050B	
410-50281-17	Pipe 82 (2)	Total/NA	Solid	3050B	
410-50281-18	7551-P6 (3)	Total/NA	Solid	3050B	
MB 410-157948/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-157948/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-50281-13 MS	Pipe 55 (2)	Total/NA	Solid	3050B	
410-50281-13 MSD	Pipe 55 (2)	Total/NA	Solid	3050B	
410-50281-13 DU	Pipe 55 (2)	Total/NA	Solid	3050B	

Analysis Batch: 159302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	6010C	157947
410-50281-2	7551-P5 (3)	Total/NA	Solid	6010C	157947
410-50281-3	Pipe 75 (2)	Total/NA	Solid	6010C	157947
410-50281-4	7551-P1 (3)	Total/NA	Solid	6010C	157947
410-50281-5	Pipe 87 (2)	Total/NA	Solid	6010C	157947
410-50281-7	Pipe 77 (2)	Total/NA	Solid	6010C	157947
410-50281-19	Pipe 81 (2)	Total/NA	Solid	6010C	157947
410-50281-20	Pipe 83 (2)	Total/NA	Solid	6010C	157947
410-50281-21	Pipe 80 (2)	Total/NA	Solid	6010C	157947
410-50281-22	Pipe 50 (2)	Total/NA	Solid	6010C	157947
410-50281-23	Pipe 49 (2)	Total/NA	Solid	6010C	157947
410-50281-24	Pipe 45 (2)	Total/NA	Solid	6010C	157947
410-50281-25	Pipe 47 (2)	Total/NA	Solid	6010C	157947
410-50281-26	Pipe 46 (2)	Total/NA	Solid	6010C	157947
410-50281-27	Pipe 48 (2)	Total/NA	Solid	6010C	157947
410-50281-28	1043-P5 (3)	Total/NA	Solid	6010C	157947
410-50281-29	1043-P4 (3)	Total/NA	Solid	6010C	157947
410-50281-30	1043-P1 (3)	Total/NA	Solid	6010C	157947
410-50281-31	Pipe 51 (2)	Total/NA	Solid	6010C	157947
410-50281-32	Pipe 52 (2)	Total/NA	Solid	6010C	157947
MB 410-157947/1-A	Method Blank	Total/NA	Solid	6010C	157947
LCS 410-157947/2-A	Lab Control Sample	Total/NA	Solid	6010C	157947
410-50281-28 MS	1043-P5 (3)	Total/NA	Solid	6010C	157947
410-50281-28 MSD	1043-P5 (3)	Total/NA	Solid	6010C	157947
410-50281-28 DU	1043-P5 (3)	Total/NA	Solid	6010C	157947

Analysis Batch: 159680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-6	7551-P2 (3)	Total/NA	Solid	6010C	157948
410-50281-8	Pipe 76 (2)	Total/NA	Solid	6010C	157948
410-50281-9	7551-P3 (3)	Total/NA	Solid	6010C	157948
410-50281-11	Pipe 53 (2)	Total/NA	Solid	6010C	157948
410-50281-12	1044-P4 (3)	Total/NA	Solid	6010C	157948
410-50281-13	Pipe 55 (2)	Total/NA	Solid	6010C	157948
410-50281-14	Pipe 78 (2)	Total/NA	Solid	6010C	157948
410-50281-15	Pipe 79 (2)	Total/NA	Solid	6010C	157948

Metals (Continued)

Analysis Batch: 159680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-16	7551-P7 (3)	Total/NA	Solid	6010C	157948
410-50281-17	Pipe 82 (2)	Total/NA	Solid	6010C	157948
410-50281-18	7551-P6 (3)	Total/NA	Solid	6010C	157948
MB 410-157948/1-A	Method Blank	Total/NA	Solid	6010C	157948
LCS 410-157948/2-A	Lab Control Sample	Total/NA	Solid	6010C	157948
410-50281-13 MS	Pipe 55 (2)	Total/NA	Solid	6010C	157948
410-50281-13 MSD	Pipe 55 (2)	Total/NA	Solid	6010C	157948
410-50281-13 DU	Pipe 55 (2)	Total/NA	Solid	6010C	157948

General Chemistry

Analysis Batch: 157749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-7	Pipe 77 (2)	Total/NA	Solid	Moisture	
410-50281-19	Pipe 81 (2)	Total/NA	Solid	Moisture	
410-50281-20	Pipe 83 (2)	Total/NA	Solid	Moisture	
410-50281-21	Pipe 80 (2)	Total/NA	Solid	Moisture	
410-50281-22	Pipe 50 (2)	Total/NA	Solid	Moisture	
410-50281-23	Pipe 49 (2)	Total/NA	Solid	Moisture	
410-50281-24	Pipe 45 (2)	Total/NA	Solid	Moisture	
410-50281-25	Pipe 47 (2)	Total/NA	Solid	Moisture	
410-50281-26	Pipe 46 (2)	Total/NA	Solid	Moisture	
410-50281-27	Pipe 48 (2)	Total/NA	Solid	Moisture	
410-50281-28	1043-P5 (3)	Total/NA	Solid	Moisture	
410-50281-29	1043-P4 (3)	Total/NA	Solid	Moisture	
410-50281-30	1043-P1 (3)	Total/NA	Solid	Moisture	
410-50281-31	Pipe 51 (2)	Total/NA	Solid	Moisture	
410-50281-32	Pipe 52 (2)	Total/NA	Solid	Moisture	

Analysis Batch: 157763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50281-1	DUP-3	Total/NA	Solid	Moisture	
410-50281-2	7551-P5 (3)	Total/NA	Solid	Moisture	
410-50281-3	Pipe 75 (2)	Total/NA	Solid	Moisture	
410-50281-4	7551-P1 (3)	Total/NA	Solid	Moisture	
410-50281-5	Pipe 87 (2)	Total/NA	Solid	Moisture	
410-50281-6	7551-P2 (3)	Total/NA	Solid	Moisture	
410-50281-8	Pipe 76 (2)	Total/NA	Solid	Moisture	
410-50281-9	7551-P3 (3)	Total/NA	Solid	Moisture	
410-50281-11	Pipe 53 (2)	Total/NA	Solid	Moisture	
410-50281-12	1044-P4 (3)	Total/NA	Solid	Moisture	
410-50281-13	Pipe 55 (2)	Total/NA	Solid	Moisture	
410-50281-14	Pipe 78 (2)	Total/NA	Solid	Moisture	
410-50281-15	Pipe 79 (2)	Total/NA	Solid	Moisture	
410-50281-16	7551-P7 (3)	Total/NA	Solid	Moisture	
410-50281-17	Pipe 82 (2)	Total/NA	Solid	Moisture	
410-50281-18	7551-P6 (3)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: DUP-3
Lab Sample ID: 410-50281-1
Date Collected: 08/06/21 00:00
Matrix: Solid
Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: DUP-3
Lab Sample ID: 410-50281-1
Date Collected: 08/06/21 00:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:04	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 13:13	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 16:36	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 15:00	MDP5	ELLE

Client Sample ID: 7551-P5 (3)
Lab Sample ID: 410-50281-2
Date Collected: 08/06/21 10:50
Matrix: Solid
Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 7551-P5 (3)
Lab Sample ID: 410-50281-2
Date Collected: 08/06/21 10:50
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:04	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 17:23	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 17:44	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 15:04	MDP5	ELLE

Client Sample ID: Pipe 75 (2)
Lab Sample ID: 410-50281-3
Date Collected: 08/06/21 11:00
Matrix: Solid
Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: Pipe 75 (2)

Lab Sample ID: 410-50281-3
Date Collected: 08/06/21 11:00
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 12:23	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 15:08	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 18:06	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 15:08	MDP5	ELLE

Client Sample ID: 7551-P1 (3)

Lab Sample ID: 410-50281-4
Date Collected: 08/06/21 11:15
Matrix: Solid
Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 7551-P1 (3)

Lab Sample ID: 410-50281-4
Date Collected: 08/06/21 11:15
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 58.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 13:36	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 18:29	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 15:12	MDP5	ELLE

Client Sample ID: Pipe 87 (2)

Lab Sample ID: 410-50281-5
Date Collected: 08/06/21 11:30
Matrix: Solid
Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 87 (2)

Lab Sample ID: 410-50281-5
Date Collected: 08/06/21 11:30
Matrix: Solid
Date Received: 08/06/21 15:23
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 12:23	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 15:28	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 18:52	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 15:16	MDP5	ELLE

Client Sample ID: 7551-P2 (3)

Lab Sample ID: 410-50281-6

Date Collected: 08/06/21 11:45

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 7551-P2 (3)

Lab Sample ID: 410-50281-6

Date Collected: 08/06/21 11:45

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 72.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:28	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 16:38	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 19:15	ULM3	ELLE
Total/NA	Prep	3546	DL		158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D	DL	5	158947	08/11/21 08:54	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:05	WJM9	ELLE

Client Sample ID: Pipe 77 (2)

Lab Sample ID: 410-50281-7

Date Collected: 08/06/21 09:55

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 77 (2)

Lab Sample ID: 410-50281-7

Date Collected: 08/06/21 09:55

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 12:23	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 15:49	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 19:37	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 13:58	MDP5	ELLE

Client Sample ID: Pipe 76 (2)

Lab Sample ID: 410-50281-8

Date Collected: 08/06/21 12:00

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 76 (2)

Lab Sample ID: 410-50281-8

Date Collected: 08/06/21 12:00

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:28	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 13:59	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 20:00	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:09	WJM9	ELLE

Client Sample ID: 7551-P3 (3)

Lab Sample ID: 410-50281-9

Date Collected: 08/06/21 12:15

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 7551-P3 (3)

Lab Sample ID: 410-50281-9

Date Collected: 08/06/21 12:15

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:28	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 14:22	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 20:23	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:19	WJM9	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-50281-10

Date Collected: 08/06/21 00:00

Matrix: Water

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	158775	08/10/21 20:55	LCW8	ELLE

Client Sample ID: Pipe 53 (2)

Lab Sample ID: 410-50281-11

Date Collected: 08/05/21 14:15

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 53 (2)

Lab Sample ID: 410-50281-11

Date Collected: 08/05/21 14:15

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:28	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 14:44	UCB5	ELLE
Total/NA	Prep	5035	RA		157883	08/08/21 12:28	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	159034	08/11/21 13:48	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		5	159422	08/12/21 07:05	UWHS	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:22	WJM9	ELLE

Client Sample ID: 1044-P4 (3)

Lab Sample ID: 410-50281-12

Date Collected: 08/05/21 14:30

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 1044-P4 (3)

Lab Sample ID: 410-50281-12

Date Collected: 08/05/21 14:30

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:28	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 17:00	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 05:12	UWHS	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:26	WJM9	ELLE

Client Sample ID: Pipe 55 (2)

Lab Sample ID: 410-50281-13

Date Collected: 08/05/21 14:40

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 55 (2)

Lab Sample ID: 410-50281-13

Date Collected: 08/05/21 14:40

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 16:10	USEJ	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 05:35	UWHS	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 09:44	WJM9	ELLE

Client Sample ID: Pipe 78 (2)

Lab Sample ID: 410-50281-14

Date Collected: 08/06/21 09:05

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 78 (2)

Lab Sample ID: 410-50281-14

Date Collected: 08/06/21 09:05

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 59.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 16:31	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 20:45	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:29	WJM9	ELLE

Client Sample ID: Pipe 79 (2)

Lab Sample ID: 410-50281-15

Date Collected: 08/06/21 09:40

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 79 (2)

Lab Sample ID: 410-50281-15

Date Collected: 08/06/21 09:40

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 16:52	USEJ	ELLE
Total/NA	Prep	5035	DL		157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C	DL	500	159518	08/12/21 12:03	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 21:08	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:33	WJM9	ELLE

Client Sample ID: 7551-P7 (3)

Lab Sample ID: 410-50281-16

Date Collected: 08/06/21 09:45

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 7551-P7 (3)

Lab Sample ID: 410-50281-16

Date Collected: 08/06/21 09:45

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 17:12	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 21:31	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:37	WJM9	ELLE

Client Sample ID: Pipe 82 (2)

Lab Sample ID: 410-50281-17

Date Collected: 08/06/21 10:10

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: Pipe 82 (2)

Lab Sample ID: 410-50281-17

Date Collected: 08/06/21 10:10

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 70.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 17:46	UCB5	ELLE
Total/NA	Prep	3546			159307	08/11/21 17:48	QQ3P	ELLE
Total/NA	Analysis	8270D		1	159845	08/12/21 22:25	SJ89	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:40	WJM9	ELLE

Client Sample ID: 7551-P6 (3)

Lab Sample ID: 410-50281-18

Date Collected: 08/06/21 10:15

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157763	08/07/21 00:30	X4C8	ELLE

Client Sample ID: 7551-P6 (3)

Lab Sample ID: 410-50281-18

Date Collected: 08/06/21 10:15

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 66.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 17:33	USEJ	ELLE
Total/NA	Prep	5035	DL		157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C	DL	500	159518	08/12/21 12:24	USEJ	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 22:16	ULM3	ELLE
Total/NA	Prep	3050B			157948	08/09/21 03:39	UAMX	ELLE
Total/NA	Analysis	6010C		1	159680	08/12/21 10:44	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: Pipe 81 (2)

Lab Sample ID: 410-50281-19

Date Collected: 08/06/21 10:25

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 81 (2)

Lab Sample ID: 410-50281-19

Date Collected: 08/06/21 10:25

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	159034	08/11/21 14:10	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 12:18	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:02	MDP5	ELLE

Client Sample ID: Pipe 83 (2)

Lab Sample ID: 410-50281-20

Date Collected: 08/06/21 10:30

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 83 (2)

Lab Sample ID: 410-50281-20

Date Collected: 08/06/21 10:30

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 15:30	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 12:40	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:06	MDP5	ELLE

Client Sample ID: Pipe 80 (2)

Lab Sample ID: 410-50281-21

Date Collected: 08/06/21 10:40

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 80 (2)

Lab Sample ID: 410-50281-21

Date Collected: 08/06/21 10:40

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	159034	08/11/21 14:56	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 13:03	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:10	MDP5	ELLE

Client Sample ID: Pipe 50 (2)

Lab Sample ID: 410-50281-22

Date Collected: 08/05/21 12:50

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 50 (2)

Lab Sample ID: 410-50281-22

Date Collected: 08/05/21 12:50

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 15:52	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 05:57	UWHS	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:20	MDP5	ELLE

Client Sample ID: Pipe 49 (2)

Lab Sample ID: 410-50281-23

Date Collected: 08/05/21 12:55

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 49 (2)

Lab Sample ID: 410-50281-23

Date Collected: 08/05/21 12:55

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 12:04	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 18:08	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 06:20	UWHS	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:23	MDP5	ELLE

Client Sample ID: Pipe 45 (2)

Lab Sample ID: 410-50281-24

Date Collected: 08/05/21 13:00

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 45 (2)

Lab Sample ID: 410-50281-24

Date Collected: 08/05/21 13:00

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 17:54	USEJ	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 06:43	UWHS	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:26	MDP5	ELLE

Client Sample ID: Pipe 47 (2)

Lab Sample ID: 410-50281-25

Date Collected: 08/05/21 13:05

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 47 (2)

Lab Sample ID: 410-50281-25

Date Collected: 08/05/21 13:05

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 18:15	USEJ	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		10	159422	08/12/21 07:27	UWHS	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:33	MDP5	ELLE

Client Sample ID: Pipe 46 (2)

Lab Sample ID: 410-50281-26

Date Collected: 08/05/21 13:10

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 46 (2)

Lab Sample ID: 410-50281-26

Date Collected: 08/05/21 13:10

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157884	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		50	159050	08/11/21 18:36	USEJ	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		10	159422	08/12/21 07:50	UWHS	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:37	MDP5	ELLE

Client Sample ID: Pipe 48 (2)

Lab Sample ID: 410-50281-27

Date Collected: 08/05/21 13:20

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 48 (2)

Lab Sample ID: 410-50281-27

Date Collected: 08/05/21 13:20

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 18:31	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 22:38	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:30	MDP5	ELLE

Client Sample ID: 1043-P5 (3)

Lab Sample ID: 410-50281-28

Date Collected: 08/05/21 13:25

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: 1043-P5 (3)

Lab Sample ID: 410-50281-28

Date Collected: 08/05/21 13:25

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	159034	08/11/21 14:33	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 23:01	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 13:38	MDP5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Client Sample ID: 1043-P4 (3)

Lab Sample ID: 410-50281-29

Date Collected: 08/05/21 13:30
Date Received: 08/06/21 15:23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: 1043-P4 (3)

Lab Sample ID: 410-50281-29

Date Collected: 08/05/21 13:30
Date Received: 08/06/21 15:23

Matrix: Solid
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 19:39	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 23:23	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:41	MDP5	ELLE

Client Sample ID: 1043-P1 (3)

Lab Sample ID: 410-50281-30

Date Collected: 08/05/21 13:40
Date Received: 08/06/21 15:23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: 1043-P1 (3)

Lab Sample ID: 410-50281-30

Date Collected: 08/05/21 13:40
Date Received: 08/06/21 15:23

Matrix: Solid
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 18:54	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/10/21 23:46	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:44	MDP5	ELLE

Client Sample ID: Pipe 51 (2)

Lab Sample ID: 410-50281-31

Date Collected: 08/05/21 13:50
Date Received: 08/06/21 15:23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 51 (2)

Lab Sample ID: 410-50281-31

Date Collected: 08/05/21 13:50

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	159083	08/11/21 22:47	USEJ	ELLE
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	159034	08/11/21 15:18	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/11/21 00:08	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:51	MDP5	ELLE

Client Sample ID: Pipe 52 (2)

Lab Sample ID: 410-50281-32

Date Collected: 08/05/21 14:00

Matrix: Solid

Date Received: 08/06/21 15:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157749	08/06/21 22:34	OEL4	ELLE

Client Sample ID: Pipe 52 (2)

Lab Sample ID: 410-50281-32

Date Collected: 08/05/21 14:00

Matrix: Solid

Date Received: 08/06/21 15:23

Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157883	08/08/21 11:15	JJT8	ELLE
Total/NA	Analysis	8260C		1	159034	08/11/21 15:41	UCB5	ELLE
Total/NA	Prep	3546			158485	08/10/21 09:37	U9KU	ELLE
Total/NA	Analysis	8270D		1	158700	08/11/21 00:31	ULM3	ELLE
Total/NA	Prep	3050B			157947	08/09/21 03:32	UJLA	ELLE
Total/NA	Analysis	6010C		1	159302	08/11/21 14:47	MDP5	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50281-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-50281-1	DUP-3	Solid	08/06/21 00:00	08/06/21 15:23
410-50281-2	7551-P5 (3)	Solid	08/06/21 10:50	08/06/21 15:23
410-50281-3	Pipe 75 (2)	Solid	08/06/21 11:00	08/06/21 15:23
410-50281-4	7551-P1 (3)	Solid	08/06/21 11:15	08/06/21 15:23
410-50281-5	Pipe 87 (2)	Solid	08/06/21 11:30	08/06/21 15:23
410-50281-6	7551-P2 (3)	Solid	08/06/21 11:45	08/06/21 15:23
410-50281-7	Pipe 77 (2)	Solid	08/06/21 09:55	08/06/21 15:23
410-50281-8	Pipe 76 (2)	Solid	08/06/21 12:00	08/06/21 15:23
410-50281-9	7551-P3 (3)	Solid	08/06/21 12:15	08/06/21 15:23
410-50281-10	Trip Blank	Water	08/06/21 00:00	08/06/21 15:23
410-50281-11	Pipe 53 (2)	Solid	08/05/21 14:15	08/06/21 15:23
410-50281-12	1044-P4 (3)	Solid	08/05/21 14:30	08/06/21 15:23
410-50281-13	Pipe 55 (2)	Solid	08/05/21 14:40	08/06/21 15:23
410-50281-14	Pipe 78 (2)	Solid	08/06/21 09:05	08/06/21 15:23
410-50281-15	Pipe 79 (2)	Solid	08/06/21 09:40	08/06/21 15:23
410-50281-16	7551-P7 (3)	Solid	08/06/21 09:45	08/06/21 15:23
410-50281-17	Pipe 82 (2)	Solid	08/06/21 10:10	08/06/21 15:23
410-50281-18	7551-P6 (3)	Solid	08/06/21 10:15	08/06/21 15:23
410-50281-19	Pipe 81 (2)	Solid	08/06/21 10:25	08/06/21 15:23
410-50281-20	Pipe 83 (2)	Solid	08/06/21 10:30	08/06/21 15:23
410-50281-21	Pipe 80 (2)	Solid	08/06/21 10:40	08/06/21 15:23
410-50281-22	Pipe 50 (2)	Solid	08/05/21 12:50	08/06/21 15:23
410-50281-23	Pipe 49 (2)	Solid	08/05/21 12:55	08/06/21 15:23
410-50281-24	Pipe 45 (2)	Solid	08/05/21 13:00	08/06/21 15:23
410-50281-25	Pipe 47 (2)	Solid	08/05/21 13:05	08/06/21 15:23
410-50281-26	Pipe 46 (2)	Solid	08/05/21 13:10	08/06/21 15:23
410-50281-27	Pipe 48 (2)	Solid	08/05/21 13:20	08/06/21 15:23
410-50281-28	1043-P5 (3)	Solid	08/05/21 13:25	08/06/21 15:23
410-50281-29	1043-P4 (3)	Solid	08/05/21 13:30	08/06/21 15:23
410-50281-30	1043-P1 (3)	Solid	08/05/21 13:40	08/06/21 15:23
410-50281-31	Pipe 51 (2)	Solid	08/05/21 13:50	08/06/21 15:23
410-50281-32	Pipe 52 (2)	Solid	08/05/21 14:00	08/06/21 15:23

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: SP/IA/ZS/DH	LC: 410-50281 Chain of Custody	Job(s):	COC No: 410-30583-9562 1
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	PA	Page: Page 1 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Loaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Loaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
Preservation Code:							F	N	A		
DUP-3	8/6/21	—	G	Solid			X	X	X		
7551-P5 (3)	8/6/21	1050	G	Solid			X	X	X		
Pipe 75 (2)	8/6/21	1100	G	Solid			X	X	X		
7551-P1 (3)	8/6/21	1115	G	Solid			X	X	X		
Pipe 87 (2)	8/6/21	1130	G	Solid			X	X	X		
7551-P2 (3)	8/6/21	1145	G	Solid			X	X	X		
Pipe 60 (2)	8/5/21	1200	G	Solid			X	X	X		
Pipe 76 (2)	8/6/21	1200	G	Solid			X	X	X		
7551-P3 (3)	8/6/21	1215	G	Solid			X	X	X		
Trip Blank	8/6/21	—	G	Water Solid							
				Solid							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/6/21 1240	Stantec		8/6/21 17:40	
2		8/6/21 1510				
3					8/6/21 1823	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.6 - 1.9

Ver 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: SP/IA/DH/ZS	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-30581-9562 5
Client Contact: Mark Schaeffer	Phone: 4844673657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 5 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days):			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	A		
Pipe 59 (2)	8/5/21	1415	G	Solid			X	X	X		
1044-P4 (3)	8/5/21	1430	G	Solid			X	X	X		
Pipe 55 (2)	8/5/21	1440	G	Solid			X	X	X		
Pipe 78 (2)	8/6/21	0905	G	Solid			X	X	X		
Pipe 79 (2)	8/6/21	0940	G	Solid			X	X	X		
7551-P7 (3)	8/6/21	0945	G	Solid			X	X	X		
Pipe 82 (2)	8/6/21	1010	G	Solid			X	X	X		
7551-P6 (3)	8/6/21	1015	G	Solid			X	X	X		
Pipe 81 (2)	8/6/21	1025	G	Solid			X	X	X		
Pipe 83 (2)	8/6/21	1030	G	Solid			X	X	X		
Pipe 80 (2)	8/6/21	1040	G	Solid			X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/6/21 1240	Company: Stantec	Received by:	Date/Time: 8/6/21 12:40	Company
Relinquished by:	Date/Time: 8/6/21 1510	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 8/6/21 15:23	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.6-1.9

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: SP/TA/DH/ES	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-30581-9562 4
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 4 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days):			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Special Instructions/Note:
					N	N	A	
Pipe 50 (2)	8/5/21	1250	G	Solid	X	X	X	
Pipe 49 (2)	8/5/21	1255	G	Solid	X	X	X	
Pipe 45 (2)	8/5/21	1300	G	Solid	X	X	X	
Pipe 47 (2)	8/5/21	1305	G	Solid	X	X	X	
Pipe 46 (2)	8/5/21	1310	G	Solid	X	X	X	
Pipe 48 (2)	8/5/21	1320	G	Solid	X	X	X	
1043-P5 (3)	8/5/21	1325	G	Solid	X	X	X	
1043-P4 (3)	8/5/21	1330	G	~~Water~~ Solid	X	X	X	
1043-P1 (3)	8/5/21	1340	G	~~Water~~ Solid	X	X	X	
Pipe 51 (2)	8/5/21	1350	G	~~Water~~ Solid	X	X	X	
Pipe 52 (2)	8/5/21	1400	G	~~Water~~ Solid	X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

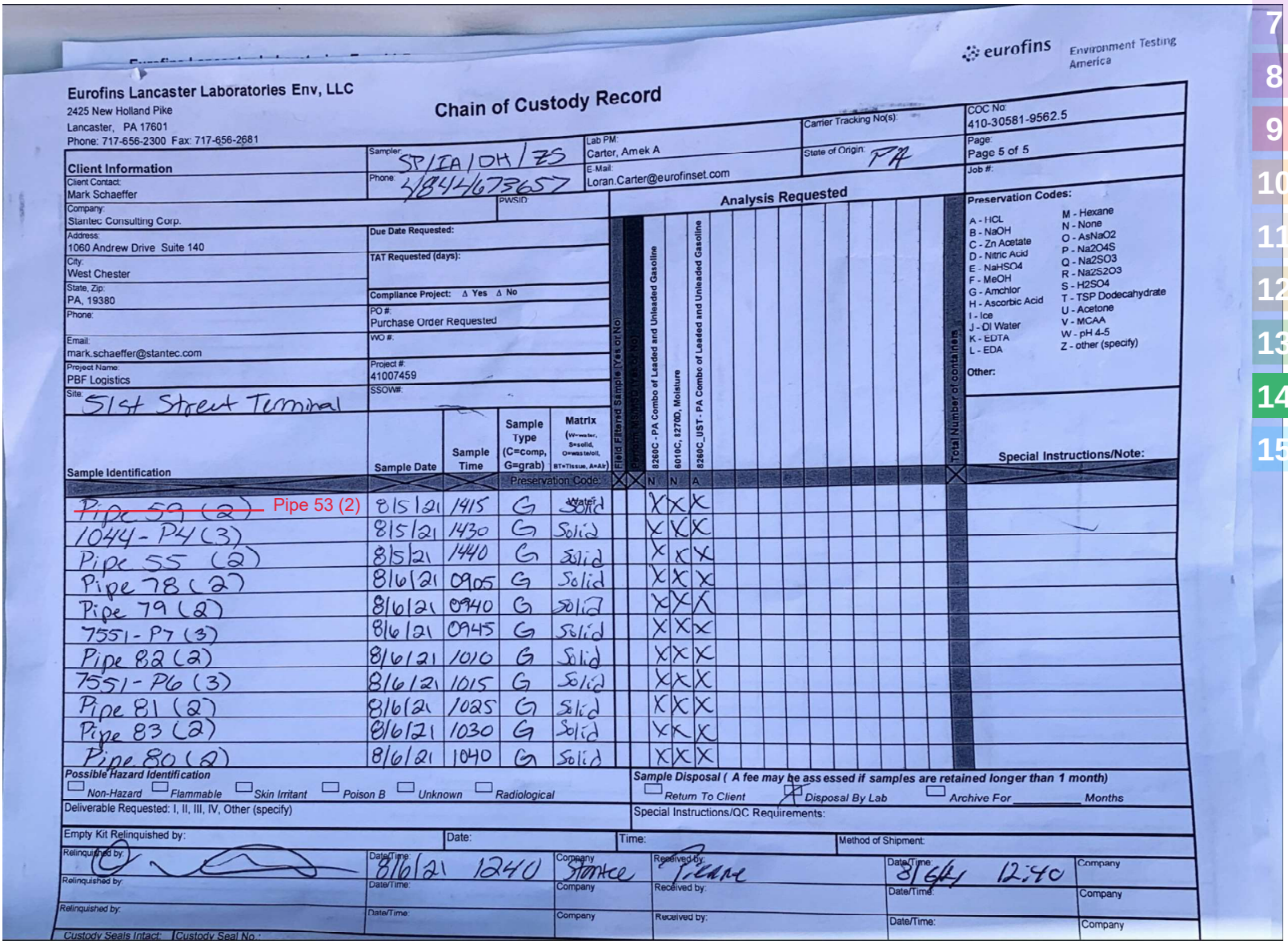
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/6/21 1240	Stantec	Pierre	8/6/21 1240	
2	Pierre	8/6/21 1500				
3					8/6/21 1523	

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.4 - 1.9

Ver: 06/08/2021



eurofins Environment Testing America

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

Client Information
Client Contact: Mark Schaeffer
Company: Stantec Consulting Corp.
Address: 1060 Andrew Drive Suite 140
City: West Chester
State, Zip: PA, 19380
Phone:
Email: mark.schaeffer@stantec.com
Project Name: PBF Logistics
Site: 51st Street Terminal

Sampler: SP/IA/DH/ZS
Phone: 3844673657
PWSID:
Due Date Requested:
TAT Requested (days):
Compliance Project: Δ Yes Δ No
PO #: Purchase Order Requested
WO #:
Project #: 41007459
SSOW#:

Lab PM: Carter, Amek A
E-Mail: Loran.Carter@eurofinset.com
Carrier Tracking No(s):
State of Origin: PA

COC No: 410-30581-9562.5
Page: Page 5 of 5
Job #:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 1270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers
			Preservation Code:				N	N	A	
~~Pipe 59 (2)~~ Pipe 53 (2)	8/5/21	1415	G	Solid			X	X	X	
1044-P4 (3)	8/5/21	1430	G	Solid			X	X	X	
Pipe 55 (2)	8/5/21	1440	G	Solid			X	X	X	
Pipe 78 (2)	8/6/21	0905	G	Solid			X	X	X	
Pipe 79 (2)	8/6/21	0940	G	Solid			X	X	X	
7551-P7 (3)	8/6/21	0945	G	Solid			X	X	X	
Pipe 82 (2)	8/6/21	1010	G	Solid			X	X	X	
7551-P6 (3)	8/6/21	1015	G	Solid			X	X	X	
Pipe 81 (2)	8/6/21	1025	G	Solid			X	X	X	
Pipe 83 (2)	8/6/21	1030	G	Solid			X	X	X	
Pipe 80 (2)	8/6/21	1040	G	Solid			X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	8/6/21 1240	Stantec		8/6/21 12:40	
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: Custody Seal No.:

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-50281-1

Login Number: 50281

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Lugardo, Tamara

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-50151-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/15/2021 8:44:00 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
8/15/2021 8:44:00 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
FL	MS and/or MSD recovery below control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
FL	MS and/or MSD recovery below control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job ID: 410-50151-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-50151-1

Receipt
The samples were received on 8/5/2021 4:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.9°C and 2.7°C

Receipt Exceptions
The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): Pipe 60 (2) (410-50151-31) and Trip Blank (410-50151-32)

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: 1248-P5 (3) (410-50151-11), Pipe 5 (2) (410-50151-21) and Pipe 17 (2) (410-50151-29). Elevated reporting limits (RLs) are provided.

Method 8260C: Internal standard (ISTD) response for the following sample was outside of acceptance limits: Pipe 2 (2) (410-50151-19). The sample(s) was not re-analyzed due to insufficient volume.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: 4847-P6 (3) — Lab Sample ID: 410-50151-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.9		1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 15 (2) — Lab Sample ID: 410-50151-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	6.4	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.4	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	6.7	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4.3	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	4.5	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	9.2	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	11	FL F2	1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 4847-P2 (3) — Lab Sample ID: 410-50151-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	5.8	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.1	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	6.4	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	6.4	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	5.1	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	12	J	20	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	14	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	15		1.6	0.63	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 4847-P1 (3) — Lab Sample ID: 410-50151-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	4.8	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.4	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.4	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	4.6	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	6.8	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Lead	15		1.2	0.49	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 4847-P3 (3) — Lab Sample ID: 410-50151-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.5		1.2	0.48	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1043-P3 (3) — Lab Sample ID: 410-50151-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	5.6	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	7.6	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	62		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	8.4	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	9.7		1.5	0.61	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP-2 — Lab Sample ID: 410-50151-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	4.9	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	120		1.7	0.67	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: Pipe 61 (2) — Lab Sample ID: 410-50151-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.97	J	5.9	0.59	ug/Kg	1	☼	8260C	Total/NA
Anthracene	170		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	31		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	32		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	51		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	37		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	42		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	93		21	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	52		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	570		1.4	0.55	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1043-P2 (3) — Lab Sample ID: 410-50151-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.94	J	7.3	0.88	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.9	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
Anthracene	38		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	31		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	49		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	32		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	39		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	7.7	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	100		21	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	56		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	490		1.6	0.62	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 11 (2) — Lab Sample ID: 410-50151-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13		1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1248-P5 (3) — Lab Sample ID: 410-50151-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.1		1.2	0.48	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 14 (2) — Lab Sample ID: 410-50151-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	1.7	J	6.4	0.64	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2.5	J	6.4	0.64	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	0.59	J	6.4	0.51	ug/Kg	1	☼	8260C	Total/NA
Pyrene	9.5	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	8.9		1.2	0.47	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1248-P4 (3) — Lab Sample ID: 410-50151-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17		1.2	0.50	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: 1248-P3 (3) — Lab Sample ID: 410-50151-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		1.7	0.67	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1248-P2 (3) — Lab Sample ID: 410-50151-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13		1.2	0.49	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP-1 — Lab Sample ID: 410-50151-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15		1.2	0.50	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 1 (2) — Lab Sample ID: 410-50151-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13		1.3	0.50	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1248-P1 (3) — Lab Sample ID: 410-50151-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17		1.2	0.49	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 2 (2) — Lab Sample ID: 410-50151-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	30		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	250		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	220		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	370		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	180		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	300		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	12	J	19	3.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	97		19	4.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	410		19	3.7	ug/Kg	1	☼	8270D	Total/NA
Lead	25		1.2	0.49	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 3 (2) — Lab Sample ID: 410-50151-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	5.6	J	22	4.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	51		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Lead	19		1.4	0.56	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 5 (2) — Lab Sample ID: 410-50151-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		1.5	0.61	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 7 (2) — Lab Sample ID: 410-50151-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	20000		340	27	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	3100		340	34	ug/Kg	50	☼	8260C	Total/NA
Toluene	99	J	340	41	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	21000		680	95	ug/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 7 (2) (Continued)

Lab Sample ID: 410-50151-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	58	J	340	34	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	11000		340	140	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	7300		340	27	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	150000		6800	680	ug/Kg	1000	☼	8260C	Total/NA
Benzo[a]anthracene	8.3	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	1100		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1900		19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	200		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	9.3		1.3	0.53	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 8 (2)

Lab Sample ID: 410-50151-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	9400		340	34	ug/Kg	50	☼	8260C	Total/NA
Toluene	97	J	340	40	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	23000		670	94	ug/Kg	50	☼	8260C	Total/NA
Benzene	37	J	340	34	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	11000		340	130	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	6300		340	27	ug/Kg	50	☼	8260C	Total/NA
Ethylbenzene - DL	44000		6700	540	ug/Kg	1000	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	150000		6700	670	ug/Kg	1000	☼	8260C	Total/NA
Anthracene	450	FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	9.9	J FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.2	J FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	4.1	J FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	16	J FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	1500	FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	3400	FL F2	19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	310	FL F2	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Lead	13		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 6 (2)

Lab Sample ID: 410-50151-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	8.9	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	11	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.4	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	11	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	16	J	19	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	17	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	14		1.5	0.58	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 10 (2)

Lab Sample ID: 410-50151-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	4600		320	26	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	69	J	320	32	ug/Kg	50	☼	8260C	Total/NA
Toluene	43	J	320	39	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	140	J	650	91	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	230	J	320	130	ug/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 10 (2) (Continued)

Lab Sample ID: 410-50151-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	810		320	32	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	4300		320	26	ug/Kg	50	☼	8260C	Total/NA
Anthracene	360		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	8.2	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5.4	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	4.8	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4.5	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	15	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	1700		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	2500		19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	230		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Lead	32		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 9 (2)

Lab Sample ID: 410-50151-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	5600		290	23	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	84	J	290	29	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	360	J	580	81	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	2500		290	120	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	260	J	290	29	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	2100		290	23	ug/Kg	50	☼	8260C	Total/NA
Anthracene	230		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	14	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	12	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	11	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	19		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	870		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1400		18	4.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	140		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Lead	15		1.4	0.55	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 12 (2)

Lab Sample ID: 410-50151-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	320	J	360	29	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1100		360	36	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	940		730	100	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	1200		360	150	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2700		360	36	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	260	J	360	29	ug/Kg	50	☼	8260C	Total/NA
Anthracene	220		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	8.9	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	11	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	17	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	11	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	17	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	540		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	410		19	4.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	330		19	3.8	ug/Kg	1	☼	8270D	Total/NA
Lead	13		1.3	0.53	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: Pipe 13 (2) — Lab Sample ID: 410-50151-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	2300		310	25	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	2900		310	120	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	90	J	310	31	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	3600		310	25	ug/Kg	50	☼	8260C	Total/NA
Anthracene	190		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	6.2	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	3.7	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5.5	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	11	J	18	3.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	780		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1300		18	4.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	180		18	3.7	ug/Kg	1	☼	8270D	Total/NA
Lead	12		1.2	0.49	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 17 (2) — Lab Sample ID: 410-50151-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	27	J	270	27	ug/Kg	50	☼	8260C	Total/NA
Anthracene	11	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	16	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	15	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	23		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	14	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	26		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	11	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	31		20	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	22		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	16		1.7	0.66	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 16 (2) — Lab Sample ID: 410-50151-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	4.5	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	4.0		1.4	0.54	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 60 (2) — Lab Sample ID: 410-50151-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	3.9	J	6.9	0.82	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.8	J	14	1.9	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.0	J	6.9	0.69	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	5.0	J	6.9	2.7	ug/Kg	1	☼	8260C	Total/NA
Anthracene	130		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	10	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	10	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	13	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.5	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	23		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	110		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	22		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	190		1.3	0.53	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: Trip Blank **Lab Sample ID: 410-50151-32**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: 4847-P6 (3)

Date Collected: 08/05/21 09:10
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-1

Matrix: Solid
Percent Solids: 73.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.4	0.52	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
1,2-Dichloroethane	ND		6.4	0.77	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
1,3,5-Trimethylbenzene	ND		6.4	0.64	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
Toluene	ND		6.4	0.77	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
Xylenes, Total	ND		13	1.8	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
Methyl tertiary butyl ether	ND		6.4	0.64	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
Benzene	ND		6.4	0.64	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
Naphthalene	ND		6.4	2.6	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
1,2,4-Trimethylbenzene	ND		6.4	0.64	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
Isopropylbenzene	ND		6.4	0.52	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1
1,2-Dibromoethane	ND		6.4	0.52	ug/Kg	☼	08/06/21 14:36	08/09/21 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/06/21 14:36*	*08/09/21 12:07*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/06/21 14:36*	*08/09/21 12:07*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/06/21 14:36*	*08/09/21 12:07*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/06/21 14:36*	*08/09/21 12:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Benzo[a]anthracene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Benzo[a]pyrene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Benzo[b]fluoranthene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Benzo[g,h,i]perylene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Chrysene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Fluorene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Phenanthrene	ND		23	5.4	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1
Pyrene	ND		23	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*16*	*S1-*	*39 - 100*	*08/10/21 17:56*	*08/11/21 09:17*	*1*
Nitrobenzene-d5 (Surr)	*35*		*32 - 97*	*08/10/21 17:56*	*08/11/21 09:17*	*1*
p-Terphenyl-d14 (Surr)	*5*	*S1-*	*45 - 108*	*08/10/21 17:56*	*08/11/21 09:17*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**2.9**		1.7	0.69	mg/Kg	☼	08/06/21 10:20	08/10/21 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26.5**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 15 (2)

Date Collected: 08/05/21 09:30
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-2

Matrix: Solid
Percent Solids: 85.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.3	0.43	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
1,2-Dichloroethane	ND		5.3	0.64	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1

Client Sample ID: Pipe 15 (2)

Lab Sample ID: 410-50151-2

Date Collected: 08/05/21 09:30

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 85.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.3	0.53	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
Toluene	ND		5.3	0.64	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
Methyl tertiary butyl ether	ND		5.3	0.53	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
Benzene	ND		5.3	0.53	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
Naphthalene	ND		5.3	2.1	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
1,2,4-Trimethylbenzene	ND		5.3	0.53	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
Isopropylbenzene	ND		5.3	0.43	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1
1,2-Dibromoethane	ND		5.3	0.43	ug/Kg	☼	08/06/21 14:36	08/09/21 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*54 - 135*	*08/06/21 14:36*	*08/09/21 12:29*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/06/21 14:36*	*08/09/21 12:29*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/06/21 14:36*	*08/09/21 12:29*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 14:36*	*08/09/21 12:29*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Benzo[a]anthracene	**6.4**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Benzo[a]pyrene	**4.4**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Benzo[b]fluoranthene	**6.7**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Benzo[g,h,i]perylene	**4.3**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Chrysene	**4.5**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Fluorene	ND		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Phenanthrene	ND		19	4.6	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1
Pyrene	**9.2**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/10/21 17:56*	*08/11/21 09:40*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/10/21 17:56*	*08/11/21 09:40*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*08/10/21 17:56*	*08/11/21 09:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**	**FL F2**	1.7	0.69	mg/Kg	☼	08/06/21 10:20	08/10/21 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.5**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 4847-P2 (3)

Lab Sample ID: 410-50151-3

Date Collected: 08/05/21 10:40

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 80.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.1	0.41	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
1,2-Dichloroethane	ND		5.1	0.61	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
1,3,5-Trimethylbenzene	ND		5.1	0.51	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
Toluene	ND		5.1	0.61	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1

Client Sample ID: 4847-P2 (3)

Lab Sample ID: 410-50151-3

Date Collected: 08/05/21 10:40
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 80.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		10	1.4	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
Methyl tertiary butyl ether	ND		5.1	0.51	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
Benzene	ND		5.1	0.51	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
Naphthalene	ND		5.1	2.0	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
1,2,4-Trimethylbenzene	ND		5.1	0.51	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
Isopropylbenzene	ND		5.1	0.41	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1
1,2-Dibromoethane	ND		5.1	0.41	ug/Kg	☼	08/06/21 14:36	08/09/21 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*54 - 135*	*08/06/21 14:36*	*08/09/21 12:52*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/06/21 14:36*	*08/09/21 12:52*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/06/21 14:36*	*08/09/21 12:52*	*1*
Toluene-d8 (Surr)	*90*		*52 - 141*	*08/06/21 14:36*	*08/09/21 12:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Benzo[a]anthracene	**5.8**	**J**	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Benzo[a]pyrene	**6.1**	**J**	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Benzo[b]fluoranthene	**6.4**	**J**	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Benzo[g,h,i]perylene	ND		20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Chrysene	**6.4**	**J**	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Fluorene	**5.1**	**J**	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Phenanthrene	**12**	**J**	20	4.9	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1
Pyrene	**14**	**J**	20	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 10:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*39 - 100*	*08/10/21 17:56*	*08/11/21 10:02*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*08/10/21 17:56*	*08/11/21 10:02*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/10/21 17:56*	*08/11/21 10:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**15**		1.6	0.63	mg/Kg	☼	08/06/21 10:20	08/10/21 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.1**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 4847-P1 (3)

Lab Sample ID: 410-50151-4

Date Collected: 08/05/21 10:55
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.7	0.45	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
1,2-Dichloroethane	ND		5.7	0.68	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
1,3,5-Trimethylbenzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
Toluene	ND		5.7	0.68	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
Xylenes, Total	ND		11	1.6	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
Methyl tertiary butyl ether	ND		5.7	0.57	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1

Client Sample ID: 4847-P1 (3)

Lab Sample ID: 410-50151-4

Date Collected: 08/05/21 10:55
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
Naphthalene	ND		5.7	2.3	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
1,2,4-Trimethylbenzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
Isopropylbenzene	ND		5.7	0.45	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1
1,2-Dibromoethane	ND		5.7	0.45	ug/Kg	☼	08/06/21 14:36	08/09/21 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*54 - 135*	*08/06/21 14:36*	*08/09/21 13:15*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/06/21 14:36*	*08/09/21 13:15*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/06/21 14:36*	*08/09/21 13:15*	*1*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/06/21 14:36*	*08/09/21 13:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Benzo[a]anthracene	**4.8**	**J**	19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Benzo[a]pyrene	**4.4**	**J**	19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Benzo[b]fluoranthene	**5.4**	**J**	19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Benzo[g,h,i]perylene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Chrysene	**4.6**	**J**	19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Fluorene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1
Pyrene	**6.8**	**J**	19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/10/21 17:56*	*08/11/21 10:25*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*08/10/21 17:56*	*08/11/21 10:25*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*08/10/21 17:56*	*08/11/21 10:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**15**		1.2	0.49	mg/Kg	☼	08/06/21 10:20	08/10/21 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 4847-P3 (3)

Lab Sample ID: 410-50151-5

Date Collected: 08/05/21 11:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 89.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		4.9	0.39	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
1,2-Dichloroethane	ND		4.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
1,3,5-Trimethylbenzene	ND		4.9	0.49	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
Toluene	ND		4.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
Xylenes, Total	ND		9.8	1.4	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
Methyl tertiary butyl ether	ND		4.9	0.49	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
Benzene	ND		4.9	0.49	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
Naphthalene	ND		4.9	2.0	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1

Client Sample ID: 4847-P3 (3)

Date Collected: 08/05/21 11:00
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-5

Matrix: Solid
Percent Solids: 89.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		4.9	0.49	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
Isopropylbenzene	ND		4.9	0.39	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1
1,2-Dibromoethane	ND		4.9	0.39	ug/Kg	☼	08/06/21 14:36	08/09/21 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*54 - 135*	*08/06/21 14:36*	*08/09/21 13:38*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/06/21 14:36*	*08/09/21 13:38*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/06/21 14:36*	*08/09/21 13:38*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 14:36*	*08/09/21 13:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Benzo[a]anthracene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Benzo[a]pyrene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Benzo[b]fluoranthene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Benzo[g,h,i]perylene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Chrysene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Fluorene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1
Pyrene	ND		19	3.7	ug/Kg	☼	08/10/21 17:56	08/11/21 10:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/10/21 17:56*	*08/11/21 10:47*	*1*
Nitrobenzene-d5 (Surr)	*77*		*32 - 97*	*08/10/21 17:56*	*08/11/21 10:47*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*08/10/21 17:56*	*08/11/21 10:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.5**		1.2	0.48	mg/Kg	☼	08/06/21 10:20	08/10/21 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1043-P3 (3)

Date Collected: 08/05/21 11:35
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-6

Matrix: Solid
Percent Solids: 78.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.8	0.62	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
1,2-Dichloroethane	ND		7.8	0.93	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
1,3,5-Trimethylbenzene	ND		7.8	0.78	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
Toluene	ND		7.8	0.93	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
Xylenes, Total	ND		16	2.2	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
Methyl tertiary butyl ether	ND		7.8	0.78	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
Benzene	ND		7.8	0.78	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
Naphthalene	ND		7.8	3.1	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
1,2,4-Trimethylbenzene	ND		7.8	0.78	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1
Isopropylbenzene	ND		7.8	0.62	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1

Client Sample ID: 1043-P3 (3)

Lab Sample ID: 410-50151-6

Date Collected: 08/05/21 11:35
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 78.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		7.8	0.62	ug/Kg	☼	08/06/21 14:36	08/09/21 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*54 - 135*	*08/06/21 14:36*	*08/09/21 14:00*	*1*
4-Bromofluorobenzene (Surr)	*78*		*50 - 131*	*08/06/21 14:36*	*08/09/21 14:00*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*	*08/06/21 14:36*	*08/09/21 14:00*	*1*
Toluene-d8 (Surr)	*100*		*52 - 141*	*08/06/21 14:36*	*08/09/21 14:00*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Benzo[a]anthracene	ND		21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Benzo[a]pyrene	ND		21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Benzo[b]fluoranthene	**5.6**	**J**	21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Benzo[g,h,i]perylene	ND		21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Chrysene	**7.6**	**J**	21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Phenanthrene	**62**		21	5.0	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1
Pyrene	**8.4**	**J**	21	4.2	ug/Kg	☼	08/12/21 18:24	08/13/21 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/12/21 18:24*	*08/13/21 12:35*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/12/21 18:24*	*08/13/21 12:35*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/12/21 18:24*	*08/13/21 12:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**9.7**		1.5	0.61	mg/Kg	☼	08/06/21 10:20	08/10/21 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.6**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: DUP-2

Lab Sample ID: 410-50151-7

Date Collected: 08/05/21 00:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 78.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.7	0.62	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
1,2-Dichloroethane	ND		7.7	0.93	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
1,3,5-Trimethylbenzene	ND		7.7	0.77	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
Toluene	ND		7.7	0.93	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
Xylenes, Total	ND		15	2.2	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
Methyl tertiary butyl ether	ND		7.7	0.77	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
Benzene	ND		7.7	0.77	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
Naphthalene	ND		7.7	3.1	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
1,2,4-Trimethylbenzene	ND		7.7	0.77	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
Isopropylbenzene	ND		7.7	0.62	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1
1,2-Dibromoethane	ND		7.7	0.62	ug/Kg	☼	08/06/21 14:36	08/09/21 16:39	1

Client Sample ID: DUP-2

Lab Sample ID: 410-50151-7

Date Collected: 08/05/21 00:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 78.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*117*		*54 - 135*	*08/06/21 14:36*	*08/09/21 16:39*	*1*
4-Bromofluorobenzene (Surr)	*76*		*50 - 131*	*08/06/21 14:36*	*08/09/21 16:39*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/06/21 14:36*	*08/09/21 16:39*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/06/21 14:36*	*08/09/21 16:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Benzo[a]anthracene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Benzo[a]pyrene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Benzo[b]fluoranthene	**4.9**	**J**	21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Benzo[g,h,i]perylene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Chrysene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Phenanthrene	ND		21	5.0	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1
Pyrene	ND		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*4*	*S1-*	*39 - 100*	*08/10/21 17:56*	*08/11/21 11:10*	*1*
Nitrobenzene-d5 (Surr)	*1*	*S1-*	*32 - 97*	*08/10/21 17:56*	*08/11/21 11:10*	*1*
p-Terphenyl-d14 (Surr)	*24*	*S1-*	*45 - 108*	*08/10/21 17:56*	*08/11/21 11:10*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**120**		1.7	0.67	mg/Kg	☼	08/06/21 10:20	08/10/21 11:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.2**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 61 (2)

Lab Sample ID: 410-50151-8

Date Collected: 08/05/21 11:50
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 80.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.9	0.47	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
1,2-Dichloroethane	ND		5.9	0.71	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
1,3,5-Trimethylbenzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
Toluene	ND		5.9	0.71	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
Xylenes, Total	ND		12	1.6	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
Methyl tertiary butyl ether	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
Benzene	**0.97**	**J**	5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
Naphthalene	ND		5.9	2.4	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
1,2,4-Trimethylbenzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
Isopropylbenzene	ND		5.9	0.47	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1
1,2-Dibromoethane	ND		5.9	0.47	ug/Kg	☼	08/06/21 14:36	08/09/21 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*119*		*54 - 135*	*08/06/21 14:36*	*08/09/21 14:23*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/06/21 14:36*	*08/09/21 14:23*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/06/21 14:36*	*08/09/21 14:23*	*1*

Client Sample ID: Pipe 61 (2)

Lab Sample ID: 410-50151-8

Date Collected: 08/05/21 11:50
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 80.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 14:36*	*08/09/21 14:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**170**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Benzo[a]anthracene	**31**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Benzo[a]pyrene	**32**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Benzo[b]fluoranthene	**51**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Benzo[g,h,i]perylene	**37**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Chrysene	**42**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Fluorene	ND		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Phenanthrene	**93**		21	4.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1
Pyrene	**52**		21	4.1	ug/Kg	☼	08/10/21 17:56	08/11/21 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/10/21 17:56*	*08/11/21 11:32*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*08/10/21 17:56*	*08/11/21 11:32*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/10/21 17:56*	*08/11/21 11:32*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**570**		1.4	0.55	mg/Kg	☼	08/06/21 10:20	08/10/21 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.7**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1043-P2 (3)

Lab Sample ID: 410-50151-9

Date Collected: 08/05/21 11:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.3	0.58	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
1,2-Dichloroethane	ND		7.3	0.88	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
1,3,5-Trimethylbenzene	ND		7.3	0.73	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
Toluene	**0.94**	**J**	7.3	0.88	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
Xylenes, Total	ND		15	2.0	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
Methyl tertiary butyl ether	ND		7.3	0.73	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
Benzene	**1.9**	**J**	7.3	0.73	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
Naphthalene	ND		7.3	2.9	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
1,2,4-Trimethylbenzene	ND		7.3	0.73	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
Isopropylbenzene	ND		7.3	0.58	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1
1,2-Dibromoethane	ND		7.3	0.58	ug/Kg	☼	08/06/21 14:36	08/09/21 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/06/21 14:36*	*08/09/21 17:02*	*1*
4-Bromofluorobenzene (Surr)	*78*		*50 - 131*	*08/06/21 14:36*	*08/09/21 17:02*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/06/21 14:36*	*08/09/21 17:02*	*1*
Toluene-d8 (Surr)	*100*		*52 - 141*	*08/06/21 14:36*	*08/09/21 17:02*	*1*

Client Sample ID: 1043-P2 (3)

Lab Sample ID: 410-50151-9

Date Collected: 08/05/21 11:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	38		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Benzo[a]anthracene	26		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Benzo[a]pyrene	31		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Benzo[b]fluoranthene	49		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Benzo[g,h,i]perylene	32		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Chrysene	39		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Fluorene	7.7	J	21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Phenanthrene	100		21	5.1	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1
Pyrene	56		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/10/21 09:43*	*08/12/21 00:43*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/10/21 09:43*	*08/12/21 00:43*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/10/21 09:43*	*08/12/21 00:43*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	490		1.6	0.62	mg/Kg	☼	08/06/21 10:20	08/10/21 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.9		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 11 (2)

Lab Sample ID: 410-50151-10

Date Collected: 08/04/21 08:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.5	0.44	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
1,2-Dichloroethane	ND		5.5	0.67	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
1,3,5-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
Toluene	ND		5.5	0.67	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
Xylenes, Total	ND		11	1.6	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
Methyl tertiary butyl ether	ND		5.5	0.55	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
Benzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
Naphthalene	ND		5.5	2.2	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
1,2,4-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
Isopropylbenzene	ND		5.5	0.44	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1
1,2-Dibromoethane	ND		5.5	0.44	ug/Kg	☼	08/06/21 14:49	08/09/21 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*54 - 135*	*08/06/21 14:49*	*08/09/21 17:25*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/06/21 14:49*	*08/09/21 17:25*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/06/21 14:49*	*08/09/21 17:25*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 14:49*	*08/09/21 17:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Benzo[a]anthracene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1

Client Sample ID: Pipe 11 (2)

Lab Sample ID: 410-50151-10

Date Collected: 08/04/21 08:45
Date Received: 08/05/21 16:02

Matrix: Solid
Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Benzo[b]fluoranthene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Benzo[g,h,i]perylene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Chrysene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Fluorene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1
Pyrene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*08/13/21 09:46*	*08/14/21 00:28*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/13/21 09:46*	*08/14/21 00:28*	*1*
p-Terphenyl-d14 (Surr)	*96*		*45 - 108*	*08/13/21 09:46*	*08/14/21 00:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		1.5	0.59	mg/Kg	☼	08/06/21 10:20	08/10/21 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1248-P5 (3)

Lab Sample ID: 410-50151-11

Date Collected: 08/04/21 09:00
Date Received: 08/05/21 16:02

Matrix: Solid
Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		290	23	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
1,2-Dichloroethane	ND		290	35	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
1,3,5-Trimethylbenzene	ND		290	29	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
Toluene	ND		290	35	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
Xylenes, Total	ND		580	81	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
Methyl tertiary butyl ether	ND		290	29	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
Benzene	ND		290	29	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
Naphthalene	ND		290	120	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
1,2,4-Trimethylbenzene	ND		290	29	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
Isopropylbenzene	ND		290	23	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50
1,2-Dibromoethane	ND		290	23	ug/Kg	☼	08/06/21 14:43	08/10/21 00:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*54 - 135*	*08/06/21 14:43*	*08/10/21 00:51*	*50*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*	*08/06/21 14:43*	*08/10/21 00:51*	*50*
Dibromofluoromethane (Surr)	*85*		*50 - 141*	*08/06/21 14:43*	*08/10/21 00:51*	*50*
Toluene-d8 (Surr)	*82*		*52 - 141*	*08/06/21 14:43*	*08/10/21 00:51*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Benzo[a]anthracene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Benzo[a]pyrene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Benzo[b]fluoranthene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1

Client Sample ID: 1248-P5 (3)

Lab Sample ID: 410-50151-11

Date Collected: 08/04/21 09:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Chrysene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Fluorene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1
Pyrene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*39 - 100*	*08/13/21 09:46*	*08/14/21 01:39*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/13/21 09:46*	*08/14/21 01:39*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/13/21 09:46*	*08/14/21 01:39*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**9.1**		1.2	0.48	mg/Kg	☼	08/06/21 11:08	08/10/21 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 14 (2)

Lab Sample ID: 410-50151-12

Date Collected: 08/04/21 09:10
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.4	0.51	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
1,2-Dichloroethane	ND		6.4	0.77	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
1,3,5-Trimethylbenzene	**1.7**	**J**	6.4	0.64	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
Toluene	ND		6.4	0.77	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
Xylenes, Total	ND		13	1.8	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
Methyl tertiary butyl ether	ND		6.4	0.64	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
Benzene	ND		6.4	0.64	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
Naphthalene	ND		6.4	2.6	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
1,2,4-Trimethylbenzene	**2.5**	**J**	6.4	0.64	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
Isopropylbenzene	**0.59**	**J**	6.4	0.51	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1
1,2-Dibromoethane	ND		6.4	0.51	ug/Kg	☼	08/06/21 14:49	08/09/21 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/06/21 14:49*	*08/09/21 17:47*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/06/21 14:49*	*08/09/21 17:47*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 141*	*08/06/21 14:49*	*08/09/21 17:47*	*1*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/06/21 14:49*	*08/09/21 17:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Benzo[a]anthracene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Benzo[a]pyrene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Benzo[b]fluoranthene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Benzo[g,h,i]perylene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Chrysene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1

Client Sample ID: Pipe 14 (2)

Lab Sample ID: 410-50151-12

Date Collected: 08/04/21 09:10
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Phenanthrene	ND		19	4.7	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1
Pyrene	**9.5**	**J**	19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/13/21 09:46*	*08/14/21 02:02*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*08/13/21 09:46*	*08/14/21 02:02*	*1*
p-Terphenyl-d14 (Surr)	*95*		*45 - 108*	*08/13/21 09:46*	*08/14/21 02:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.9**		1.2	0.47	mg/Kg	☼	08/06/21 10:20	08/10/21 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.0**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1248-P4 (3)

Lab Sample ID: 410-50151-13

Date Collected: 08/04/21 09:30
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 86.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.2	0.49	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
1,2-Dichloroethane	ND		6.2	0.74	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
1,3,5-Trimethylbenzene	ND		6.2	0.62	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
Toluene	ND		6.2	0.74	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
Xylenes, Total	ND		12	1.7	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
Methyl tertiary butyl ether	ND		6.2	0.62	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
Benzene	ND		6.2	0.62	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
Naphthalene	ND		6.2	2.5	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
1,2,4-Trimethylbenzene	ND		6.2	0.62	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
Isopropylbenzene	ND		6.2	0.49	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1
1,2-Dibromoethane	ND		6.2	0.49	ug/Kg	☼	08/06/21 13:58	08/09/21 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*54 - 135*	*08/06/21 13:58*	*08/09/21 14:46*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/06/21 13:58*	*08/09/21 14:46*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/06/21 13:58*	*08/09/21 14:46*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/06/21 13:58*	*08/09/21 14:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Benzo[a]anthracene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Benzo[a]pyrene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Benzo[b]fluoranthene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Benzo[g,h,i]perylene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Chrysene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Fluorene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1
Phenanthrene	ND		19	4.6	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1

Client Sample ID: 1248-P4 (3)

Date Collected: 08/04/21 09:30
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-13

Matrix: Solid
Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*	*08/13/21 09:46*	*08/14/21 02:26*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/13/21 09:46*	*08/14/21 02:26*	*1*
p-Terphenyl-d14 (Surr)	*100*		*45 - 108*	*08/13/21 09:46*	*08/14/21 02:26*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**17**		1.2	0.50	mg/Kg	☼	08/06/21 10:20	08/10/21 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.5**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1248-P3 (3)

Date Collected: 08/04/21 10:00
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-14

Matrix: Solid
Percent Solids: 85.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.7	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
1,2-Dichloroethane	ND		5.7	0.69	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
1,3,5-Trimethylbenzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
Toluene	ND		5.7	0.69	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
Xylenes, Total	ND		11	1.6	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
Methyl tertiary butyl ether	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
Benzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
Naphthalene	ND		5.7	2.3	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
1,2,4-Trimethylbenzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
Isopropylbenzene	ND		5.7	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1
1,2-Dibromoethane	ND		5.7	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*08/06/21 13:58*	*08/09/21 18:10*	*1*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*	*08/06/21 13:58*	*08/09/21 18:10*	*1*
Dibromofluoromethane (Surr)	*98*		*50 - 141*	*08/06/21 13:58*	*08/09/21 18:10*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/06/21 13:58*	*08/09/21 18:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Benzo[a]anthracene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Benzo[a]pyrene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Benzo[b]fluoranthene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Benzo[g,h,i]perylene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Chrysene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Fluorene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Phenanthrene	ND		19	4.7	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1
Pyrene	ND		19	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 02:49	1

Client Sample ID: 1248-P3 (3)

Lab Sample ID: 410-50151-14

Date Collected: 08/04/21 10:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/13/21 09:46*	*08/14/21 02:49*	*1*
Nitrobenzene-d5 (Surr)	*77*		*32 - 97*	*08/13/21 09:46*	*08/14/21 02:49*	*1*
p-Terphenyl-d14 (Surr)	*103*		*45 - 108*	*08/13/21 09:46*	*08/14/21 02:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		1.7	0.67	mg/Kg	☼	08/06/21 11:08	08/10/21 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.9**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1248-P2 (3)

Lab Sample ID: 410-50151-15

Date Collected: 08/04/21 10:10
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 92.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.5	0.44	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
1,2-Dichloroethane	ND		5.5	0.66	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
1,3,5-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
Toluene	ND		5.5	0.66	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
Methyl tertiary butyl ether	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
Benzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
Naphthalene	ND		5.5	2.2	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
1,2,4-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
Isopropylbenzene	ND		5.5	0.44	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1
1,2-Dibromoethane	ND		5.5	0.44	ug/Kg	☼	08/06/21 13:58	08/09/21 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*54 - 135*	*08/06/21 13:58*	*08/09/21 15:08*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/06/21 13:58*	*08/09/21 15:08*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/06/21 13:58*	*08/09/21 15:08*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 13:58*	*08/09/21 15:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Benzo[a]anthracene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Benzo[a]pyrene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Benzo[b]fluoranthene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Benzo[g,h,i]perylene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Chrysene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Fluorene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Phenanthrene	ND		18	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1
Pyrene	ND		18	3.6	ug/Kg	☼	08/13/21 09:46	08/14/21 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/13/21 09:46*	*08/14/21 03:13*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/13/21 09:46*	*08/14/21 03:13*	*1*
p-Terphenyl-d14 (Surr)	*103*		*45 - 108*	*08/13/21 09:46*	*08/14/21 03:13*	*1*

Client Sample ID: 1248-P2 (3)

Lab Sample ID: 410-50151-15
Date Collected: 08/04/21 10:10
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 92.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		1.2	0.49	mg/Kg	☼	08/06/21 11:08	08/10/21 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: DUP-1

Lab Sample ID: 410-50151-16
Date Collected: 08/04/21 00:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.9	0.47	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
1,2-Dichloroethane	ND		5.9	0.71	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
1,3,5-Trimethylbenzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
Toluene	ND		5.9	0.71	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
Xylenes, Total	ND		12	1.7	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
Methyl tertiary butyl ether	ND		5.9	0.59	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
Benzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
Naphthalene	ND		5.9	2.4	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
1,2,4-Trimethylbenzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
Isopropylbenzene	ND		5.9	0.47	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1
1,2-Dibromoethane	ND		5.9	0.47	ug/Kg	☼	08/06/21 13:58	08/09/21 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*54 - 135*	*08/06/21 13:58*	*08/09/21 15:31*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/06/21 13:58*	*08/09/21 15:31*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*08/06/21 13:58*	*08/09/21 15:31*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 13:58*	*08/09/21 15:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Benzo[a]anthracene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Benzo[a]pyrene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Benzo[b]fluoranthene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Benzo[g,h,i]perylene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Chrysene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Fluorene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1
Pyrene	ND		19	3.8	ug/Kg	☼	08/13/21 09:46	08/14/21 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*08/13/21 09:46*	*08/14/21 03:37*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/13/21 09:46*	*08/14/21 03:37*	*1*
p-Terphenyl-d14 (Surr)	*101*		*45 - 108*	*08/13/21 09:46*	*08/14/21 03:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		1.2	0.50	mg/Kg	☼	08/06/21 10:20	08/10/21 11:15	1

Client Sample ID: DUP-1

Lab Sample ID: 410-50151-16

Date Collected: 08/04/21 00:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 1 (2)

Lab Sample ID: 410-50151-17

Date Collected: 08/04/21 10:30
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 89.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.5	0.44	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
1,2-Dichloroethane	ND		5.5	0.66	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
1,3,5-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
Toluene	ND		5.5	0.66	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
Methyl tertiary butyl ether	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
Benzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
Naphthalene	ND		5.5	2.2	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
1,2,4-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
Isopropylbenzene	ND		5.5	0.44	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1
1,2-Dibromoethane	ND		5.5	0.44	ug/Kg	☼	08/06/21 13:58	08/09/21 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*54 - 135*	*08/06/21 13:58*	*08/09/21 19:18*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/06/21 13:58*	*08/09/21 19:18*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/06/21 13:58*	*08/09/21 19:18*	*1*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/06/21 13:58*	*08/09/21 19:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Benzo[a]anthracene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Benzo[a]pyrene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Benzo[b]fluoranthene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Benzo[g,h,i]perylene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Chrysene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Fluorene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1
Pyrene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*39 - 100*	*08/13/21 09:46*	*08/14/21 04:00*	*1*
Nitrobenzene-d5 (Surr)	*77*		*32 - 97*	*08/13/21 09:46*	*08/14/21 04:00*	*1*
p-Terphenyl-d14 (Surr)	*102*		*45 - 108*	*08/13/21 09:46*	*08/14/21 04:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		1.3	0.50	mg/Kg	☼	08/06/21 11:08	08/10/21 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.0		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: 1248-P1 (3)

Lab Sample ID: 410-50151-18

Date Collected: 08/04/21 10:35
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.8	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
1,2-Dichloroethane	ND		5.8	0.69	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
1,3,5-Trimethylbenzene	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
Toluene	ND		5.8	0.69	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
Xylenes, Total	ND		12	1.6	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
Methyl tertiary butyl ether	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
Benzene	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
Naphthalene	ND		5.8	2.3	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
1,2,4-Trimethylbenzene	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
Isopropylbenzene	ND		5.8	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1
1,2-Dibromoethane	ND		5.8	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/06/21 13:58*	*08/09/21 15:54*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/06/21 13:58*	*08/09/21 15:54*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/06/21 13:58*	*08/09/21 15:54*	*1*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/06/21 13:58*	*08/09/21 15:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Benzo[a]anthracene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Benzo[a]pyrene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Benzo[b]fluoranthene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Benzo[g,h,i]perylene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Chrysene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Fluorene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Phenanthrene	ND		20	4.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1
Pyrene	ND		20	3.9	ug/Kg	☼	08/13/21 09:46	08/14/21 04:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*08/13/21 09:46*	*08/14/21 04:24*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/13/21 09:46*	*08/14/21 04:24*	*1*
p-Terphenyl-d14 (Surr)	*101*		*45 - 108*	*08/13/21 09:46*	*08/14/21 04:24*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**17**		1.2	0.49	mg/Kg	☼	08/06/21 11:08	08/10/21 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.0**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 2 (2)

Lab Sample ID: 410-50151-19

Date Collected: 08/04/21 11:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	*3	2.3	0.18	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
1,2-Dichloroethane	ND	*3	2.3	0.28	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1

Client Sample ID: Pipe 2 (2)

Lab Sample ID: 410-50151-19

Date Collected: 08/04/21 11:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND	*3	2.3	0.23	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
Toluene	ND	*3	2.3	0.28	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
Xylenes, Total	ND	*3	4.6	0.64	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
Methyl tertiary butyl ether	ND	*3	2.3	0.23	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
Benzene	ND	*3	2.3	0.23	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
Naphthalene	ND	*3	2.3	0.92	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
1,2,4-Trimethylbenzene	ND	*3	2.3	0.23	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
Isopropylbenzene	ND	*3	2.3	0.18	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1
1,2-Dibromoethane	ND	*3	2.3	0.18	ug/Kg	☼	08/06/21 13:58	08/09/21 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*	*3*	*54 - 135*	*08/06/21 13:58*	*08/09/21 18:33*	*1*
4-Bromofluorobenzene (Surr)	*78*	*3*	*50 - 131*	*08/06/21 13:58*	*08/09/21 18:33*	*1*
Dibromofluoromethane (Surr)	*103*	*3*	*50 - 141*	*08/06/21 13:58*	*08/09/21 18:33*	*1*
Toluene-d8 (Surr)	*93*	*3*	*52 - 141*	*08/06/21 13:58*	*08/09/21 18:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**30**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Benzo[a]anthracene	**250**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Benzo[a]pyrene	**220**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Benzo[b]fluoranthene	**370**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Benzo[g,h,i]perylene	**180**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Chrysene	**300**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Fluorene	**12**	**J**	19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Phenanthrene	**97**		19	4.5	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1
Pyrene	**410**		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/13/21 09:46*	*08/14/21 04:48*	*1*
Nitrobenzene-d5 (Surr)	*70*		*32 - 97*	*08/13/21 09:46*	*08/14/21 04:48*	*1*
p-Terphenyl-d14 (Surr)	*93*		*45 - 108*	*08/13/21 09:46*	*08/14/21 04:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**25**		1.2	0.49	mg/Kg	☼	08/06/21 11:08	08/10/21 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 3 (2)

Lab Sample ID: 410-50151-20

Date Collected: 08/04/21 11:15
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 76.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.8	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
1,2-Dichloroethane	ND		5.8	0.69	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
1,3,5-Trimethylbenzene	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
Toluene	ND		5.8	0.69	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1

Client Sample ID: Pipe 3 (2)

Date Collected: 08/04/21 11:15
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-20

Matrix: Solid
Percent Solids: 76.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		12	1.6	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
Methyl tertiary butyl ether	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
Benzene	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
Naphthalene	ND		5.8	2.3	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
1,2,4-Trimethylbenzene	ND		5.8	0.58	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
Isopropylbenzene	ND		5.8	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1
1,2-Dibromoethane	ND		5.8	0.46	ug/Kg	☼	08/06/21 13:58	08/09/21 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/06/21 13:58*	*08/09/21 16:17*	*1*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*	*08/06/21 13:58*	*08/09/21 16:17*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/06/21 13:58*	*08/09/21 16:17*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/06/21 13:58*	*08/09/21 16:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Benzo[a]anthracene	ND		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Benzo[a]pyrene	ND		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Benzo[b]fluoranthene	ND		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Benzo[g,h,i]perylene	ND		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Chrysene	**5.6**	**J**	22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Fluorene	ND		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Phenanthrene	ND		22	5.2	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1
Pyrene	**51**		22	4.3	ug/Kg	☼	08/13/21 09:46	08/14/21 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*39 - 100*	*08/13/21 09:46*	*08/14/21 05:11*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 09:46*	*08/14/21 05:11*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*08/13/21 09:46*	*08/14/21 05:11*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**19**		1.4	0.56	mg/Kg	☼	08/06/21 11:08	08/10/21 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.1**		1.0	1.0	%			08/06/21 09:02	1

Client Sample ID: Pipe 5 (2)

Date Collected: 08/04/21 11:20
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-21

Matrix: Solid
Percent Solids: 89.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		330	26	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
1,2-Dichloroethane	ND		330	39	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
1,3,5-Trimethylbenzene	ND		330	33	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
Toluene	ND		330	39	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
Xylenes, Total	ND		650	91	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
Methyl tertiary butyl ether	ND		330	33	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50

Client Sample ID: Pipe 5 (2)

Lab Sample ID: 410-50151-21
Date Collected: 08/04/21 11:20
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 89.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		330	33	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
Naphthalene	ND		330	130	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
1,2,4-Trimethylbenzene	ND		330	33	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
Isopropylbenzene	ND		330	26	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50
1,2-Dibromoethane	ND		330	26	ug/Kg	☼	08/06/21 13:30	08/10/21 01:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*	*08/06/21 13:30*	*08/10/21 01:12*	*50*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/06/21 13:30*	*08/10/21 01:12*	*50*
Dibromofluoromethane (Surr)	*100*		*50 - 141*	*08/06/21 13:30*	*08/10/21 01:12*	*50*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/06/21 13:30*	*08/10/21 01:12*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Benzo[a]anthracene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Benzo[a]pyrene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Benzo[b]fluoranthene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Benzo[g,h,i]perylene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Chrysene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Fluorene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Phenanthrene	ND		19	4.4	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1
Pyrene	ND		19	3.7	ug/Kg	☼	08/13/21 09:46	08/14/21 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/13/21 09:46*	*08/14/21 05:34*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*08/13/21 09:46*	*08/14/21 05:34*	*1*
p-Terphenyl-d14 (Surr)	*97*		*45 - 108*	*08/13/21 09:46*	*08/14/21 05:34*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**		1.5	0.61	mg/Kg	☼	08/06/21 11:08	08/10/21 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.0**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 7 (2)

Lab Sample ID: 410-50151-22
Date Collected: 08/04/21 11:30
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**20000**		340	27	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
1,2-Dichloroethane	ND		340	41	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
1,3,5-Trimethylbenzene	**3100**		340	34	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
Toluene	**99**	**J**	340	41	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
Xylenes, Total	**21000**		680	95	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
Methyl tertiary butyl ether	ND		340	34	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
Benzene	**58**	**J**	340	34	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
Naphthalene	**11000**		340	140	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50

Client Sample ID: Pipe 7 (2)

Lab Sample ID: 410-50151-22

Date Collected: 08/04/21 11:30
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	**7300**		340	27	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50
1,2-Dibromoethane	ND		340	27	ug/Kg	☼	08/06/21 14:43	08/10/21 01:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*54 - 135*	*08/06/21 14:43*	*08/10/21 01:33*	*50*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*	*08/06/21 14:43*	*08/10/21 01:33*	*50*
Dibromofluoromethane (Surr)	*93*		*50 - 141*	*08/06/21 14:43*	*08/10/21 01:33*	*50*
Toluene-d8 (Surr)	*117*		*52 - 141*	*08/06/21 14:43*	*08/10/21 01:33*	*50*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**150000**		6800	680	ug/Kg	☼	08/06/21 14:43	08/10/21 14:04	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*54 - 135*	*08/06/21 14:43*	*08/10/21 14:04*	*1000*
4-Bromofluorobenzene (Surr)	*104*		*50 - 131*	*08/06/21 14:43*	*08/10/21 14:04*	*1000*
Dibromofluoromethane (Surr)	*78*		*50 - 141*	*08/06/21 14:43*	*08/10/21 14:04*	*1000*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/06/21 14:43*	*08/10/21 14:04*	*1000*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Benzo[a]anthracene	**8.3**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Benzo[a]pyrene	ND		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Benzo[b]fluoranthene	ND		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Benzo[g,h,i]perylene	ND		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Chrysene	**13**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Fluorene	**1100**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Phenanthrene	**1900**		19	4.6	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1
Pyrene	**200**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*	*08/10/21 17:56*	*08/11/21 11:55*	*1*
Nitrobenzene-d5 (Surr)	*80*		*32 - 97*	*08/10/21 17:56*	*08/11/21 11:55*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/10/21 17:56*	*08/11/21 11:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**9.3**		1.3	0.53	mg/Kg	☼	08/06/21 11:08	08/10/21 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.2**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 8 (2)

Lab Sample ID: 410-50151-23

Date Collected: 08/04/21 11:40
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 87.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		340	40	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
1,3,5-Trimethylbenzene	**9400**		340	34	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50

Client Sample ID: Pipe 8 (2)
Date Collected: 08/04/21 11:40
Date Received: 08/05/21 16:02

Lab Sample ID: 410-50151-23
Matrix: Solid
Percent Solids: 87.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	97	J	340	40	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
Xylenes, Total	23000		670	94	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
Methyl tertiary butyl ether	ND		340	34	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
Benzene	37	J	340	34	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
Naphthalene	11000		340	130	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
Isopropylbenzene	6300		340	27	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50
1,2-Dibromoethane	ND		340	27	ug/Kg	☼	08/06/21 14:43	08/10/21 01:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*08/06/21 14:43*	*08/10/21 01:53*	*50*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/06/21 14:43*	*08/10/21 01:53*	*50*
Dibromofluoromethane (Surr)	*82*		*50 - 141*	*08/06/21 14:43*	*08/10/21 01:53*	*50*
Toluene-d8 (Surr)	*101*		*52 - 141*	*08/06/21 14:43*	*08/10/21 01:53*	*50*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	44000		6700	540	ug/Kg	☼	08/06/21 14:43	08/10/21 14:26	1000
1,2,4-Trimethylbenzene	150000		6700	670	ug/Kg	☼	08/06/21 14:43	08/10/21 14:26	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*54 - 135*	*08/06/21 14:43*	*08/10/21 14:26*	*1000*
4-Bromofluorobenzene (Surr)	*107*		*50 - 131*	*08/06/21 14:43*	*08/10/21 14:26*	*1000*
Dibromofluoromethane (Surr)	*81*		*50 - 141*	*08/06/21 14:43*	*08/10/21 14:26*	*1000*
Toluene-d8 (Surr)	*104*		*52 - 141*	*08/06/21 14:43*	*08/10/21 14:26*	*1000*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	450	FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Benzo[a]anthracene	9.9	J FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Benzo[a]pyrene	4.2	J FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Benzo[b]fluoranthene	4.1	J FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Benzo[g,h,i]perylene	ND	FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Chrysene	16	J FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Fluorene	1500	FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Phenanthrene	3400	FL F2	19	4.6	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1
Pyrene	310	FL F2	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*39 - 100*	*08/10/21 09:43*	*08/12/21 01:05*	*1*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*	*08/10/21 09:43*	*08/12/21 01:05*	*1*
p-Terphenyl-d14 (Surr)	*75*		*45 - 108*	*08/10/21 09:43*	*08/12/21 01:05*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		1.4	0.57	mg/Kg	☼	08/06/21 10:20	08/10/21 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 6 (2)

Lab Sample ID: 410-50151-24

Date Collected: 08/04/21 11:50
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 84.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.9	0.47	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
1,2-Dichloroethane	ND		5.9	0.71	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
1,3,5-Trimethylbenzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
Toluene	ND		5.9	0.71	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
Xylenes, Total	ND		12	1.7	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
Methyl tertiary butyl ether	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
Benzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
Naphthalene	ND		5.9	2.4	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
1,2,4-Trimethylbenzene	ND		5.9	0.59	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
Isopropylbenzene	ND		5.9	0.47	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1
1,2-Dibromoethane	ND		5.9	0.47	ug/Kg	☼	08/06/21 14:36	08/09/21 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/06/21 14:36*	*08/09/21 18:55*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/06/21 14:36*	*08/09/21 18:55*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*	*08/06/21 14:36*	*08/09/21 18:55*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*08/06/21 14:36*	*08/09/21 18:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Benzo[a]anthracene	**8.9**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Benzo[a]pyrene	**11**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Benzo[b]fluoranthene	**14**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Benzo[g,h,i]perylene	**8.4**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Chrysene	**11**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Fluorene	ND		19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Phenanthrene	**16**	**J**	19	4.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1
Pyrene	**17**	**J**	19	3.9	ug/Kg	☼	08/10/21 09:43	08/12/21 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*08/10/21 09:43*	*08/12/21 02:12*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/10/21 09:43*	*08/12/21 02:12*	*1*
p-Terphenyl-d14 (Surr)	*81*		*45 - 108*	*08/10/21 09:43*	*08/12/21 02:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		1.5	0.58	mg/Kg	☼	08/06/21 11:08	08/10/21 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.2**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 10 (2)

Lab Sample ID: 410-50151-25

Date Collected: 08/04/21 12:30
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 87.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**4600**		320	26	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
1,2-Dichloroethane	ND		320	39	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50

Client Sample ID: Pipe 10 (2)

Lab Sample ID: 410-50151-25

Date Collected: 08/04/21 12:30
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 87.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	69	J	320	32	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
Toluene	43	J	320	39	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
Xylenes, Total	140	J	650	91	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
Methyl tertiary butyl ether	ND		320	32	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
Benzene	ND		320	32	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
Naphthalene	230	J	320	130	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
1,2,4-Trimethylbenzene	810		320	32	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
Isopropylbenzene	4300		320	26	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50
1,2-Dibromoethane	ND		320	26	ug/Kg	☼	08/06/21 13:30	08/10/21 02:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*	*08/06/21 13:30*	*08/10/21 02:14*	*50*
4-Bromofluorobenzene (Surr)	*74*		*50 - 131*	*08/06/21 13:30*	*08/10/21 02:14*	*50*
Dibromofluoromethane (Surr)	*96*		*50 - 141*	*08/06/21 13:30*	*08/10/21 02:14*	*50*
Toluene-d8 (Surr)	*87*		*52 - 141*	*08/06/21 13:30*	*08/10/21 02:14*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	360		19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Benzo[a]anthracene	8.2	J	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Benzo[a]pyrene	5.4	J	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Benzo[b]fluoranthene	4.8	J	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Benzo[g,h,i]perylene	4.5	J	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Chrysene	15	J	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Fluorene	1700		19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Phenanthrene	2500		19	4.6	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1
Pyrene	230		19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*39 - 100*	*08/10/21 09:43*	*08/12/21 02:35*	*1*
Nitrobenzene-d5 (Surr)	*55*		*32 - 97*	*08/10/21 09:43*	*08/12/21 02:35*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*	*08/10/21 09:43*	*08/12/21 02:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	32		1.4	0.57	mg/Kg	☼	08/06/21 10:20	08/10/21 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.6		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 9 (2)

Lab Sample ID: 410-50151-26

Date Collected: 08/04/21 12:15
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5600		290	23	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
1,2-Dichloroethane	ND		290	35	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
1,3,5-Trimethylbenzene	84	J	290	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
Toluene	ND		290	35	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50

Client Sample ID: Pipe 9 (2)

Lab Sample ID: 410-50151-26

Date Collected: 08/04/21 12:15
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**360**	**J**	580	81	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
Methyl tertiary butyl ether	ND		290	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
Benzene	ND		290	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
Naphthalene	**2500**		290	120	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
1,2,4-Trimethylbenzene	**260**	**J**	290	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
Isopropylbenzene	**2100**		290	23	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50
1,2-Dibromoethane	ND		290	23	ug/Kg	☼	08/06/21 13:30	08/10/21 02:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*	*08/06/21 13:30*	*08/10/21 02:35*	*50*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/06/21 13:30*	*08/10/21 02:35*	*50*
Dibromofluoromethane (Surr)	*97*		*50 - 141*	*08/06/21 13:30*	*08/10/21 02:35*	*50*
Toluene-d8 (Surr)	*85*		*52 - 141*	*08/06/21 13:30*	*08/10/21 02:35*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**230**		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Benzo[a]anthracene	**14**	**J**	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Benzo[a]pyrene	**12**	**J**	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Benzo[b]fluoranthene	**14**	**J**	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Benzo[g,h,i]perylene	**11**	**J**	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Chrysene	**19**		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Fluorene	**870**		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Phenanthrene	**1400**		18	4.4	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1
Pyrene	**140**		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*39 - 100*	*08/10/21 09:43*	*08/12/21 02:57*	*1*
Nitrobenzene-d5 (Surr)	*56*		*32 - 97*	*08/10/21 09:43*	*08/12/21 02:57*	*1*
p-Terphenyl-d14 (Surr)	*73*		*45 - 108*	*08/10/21 09:43*	*08/12/21 02:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**15**		1.4	0.55	mg/Kg	☼	08/06/21 10:20	08/10/21 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.0**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 12 (2)

Lab Sample ID: 410-50151-27

Date Collected: 08/04/21 12:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 87.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**320**	**J**	360	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
1,2-Dichloroethane	ND		360	44	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
1,3,5-Trimethylbenzene	**1100**		360	36	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
Toluene	ND		360	44	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
Xylenes, Total	**940**		730	100	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
Methyl tertiary butyl ether	ND		360	36	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50

Client Sample ID: Pipe 12 (2)

Lab Sample ID: 410-50151-27

Date Collected: 08/04/21 12:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 87.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		360	36	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
Naphthalene	**1200**		360	150	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
1,2,4-Trimethylbenzene	**2700**		360	36	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
Isopropylbenzene	**260**	**J**	360	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50
1,2-Dibromoethane	ND		360	29	ug/Kg	☼	08/06/21 13:30	08/10/21 02:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*	*08/06/21 13:30*	*08/10/21 02:56*	*50*
4-Bromofluorobenzene (Surr)	*100*		*50 - 131*	*08/06/21 13:30*	*08/10/21 02:56*	*50*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/06/21 13:30*	*08/10/21 02:56*	*50*
Toluene-d8 (Surr)	*85*		*52 - 141*	*08/06/21 13:30*	*08/10/21 02:56*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**220**		19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Benzo[a]anthracene	**8.9**	**J**	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Benzo[a]pyrene	**11**	**J**	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Benzo[b]fluoranthene	**17**	**J**	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Benzo[g,h,i]perylene	**11**	**J**	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Chrysene	**17**	**J**	19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Fluorene	**540**		19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Phenanthrene	**410**		19	4.5	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1
Pyrene	**330**		19	3.8	ug/Kg	☼	08/10/21 09:43	08/12/21 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*08/10/21 09:43*	*08/12/21 03:20*	*1*
Nitrobenzene-d5 (Surr)	*70*		*32 - 97*	*08/10/21 09:43*	*08/12/21 03:20*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/10/21 09:43*	*08/12/21 03:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		1.3	0.53	mg/Kg	☼	08/06/21 10:20	08/10/21 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.8**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 13 (2)

Lab Sample ID: 410-50151-28

Date Collected: 08/04/21 13:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**2300**		310	25	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
1,2-Dichloroethane	ND		310	37	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
1,3,5-Trimethylbenzene	ND		310	31	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
Toluene	ND		310	37	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
Xylenes, Total	ND		620	87	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
Methyl tertiary butyl ether	ND		310	31	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
Benzene	ND		310	31	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
Naphthalene	**2900**		310	120	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50

Client Sample ID: Pipe 13 (2)

Lab Sample ID: 410-50151-28
Date Collected: 08/04/21 13:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	90	J	310	31	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
Isopropylbenzene	3600		310	25	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50
1,2-Dibromoethane	ND		310	25	ug/Kg	☼	08/06/21 13:30	08/10/21 03:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*	*08/06/21 13:30*	*08/10/21 03:16*	*50*
4-Bromofluorobenzene (Surr)	*125*		*50 - 131*	*08/06/21 13:30*	*08/10/21 03:16*	*50*
Dibromofluoromethane (Surr)	*99*		*50 - 141*	*08/06/21 13:30*	*08/10/21 03:16*	*50*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/06/21 13:30*	*08/10/21 03:16*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	190		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Benzo[a]anthracene	6.2	J	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Benzo[a]pyrene	3.7	J	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Benzo[b]fluoranthene	ND		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Benzo[g,h,i]perylene	5.5	J	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Chrysene	11	J	18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Fluorene	780		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Phenanthrene	1300		18	4.4	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1
Pyrene	180		18	3.7	ug/Kg	☼	08/10/21 09:43	08/12/21 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/10/21 09:43*	*08/12/21 03:42*	*1*
Nitrobenzene-d5 (Surr)	*83*		*32 - 97*	*08/10/21 09:43*	*08/12/21 03:42*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*08/10/21 09:43*	*08/12/21 03:42*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		1.2	0.49	mg/Kg	☼	08/06/21 10:20	08/10/21 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 17 (2)

Lab Sample ID: 410-50151-29
Date Collected: 08/04/21 13:20
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		270	21	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
1,2-Dichloroethane	ND		270	32	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
1,3,5-Trimethylbenzene	ND		270	27	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
Toluene	ND		270	32	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
Xylenes, Total	ND		540	75	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
Methyl tertiary butyl ether	ND		270	27	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
Benzene	ND		270	27	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
Naphthalene	ND		270	110	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
1,2,4-Trimethylbenzene	27	J	270	27	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50
Isopropylbenzene	ND		270	21	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50

Client Sample ID: Pipe 17 (2)

Lab Sample ID: 410-50151-29
Date Collected: 08/04/21 13:20
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		270	21	ug/Kg	☼	08/06/21 13:30	08/10/21 03:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*54 - 135*	*08/06/21 13:30*	*08/10/21 03:37*	*50*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*08/06/21 13:30*	*08/10/21 03:37*	*50*
Dibromofluoromethane (Surr)	*101*		*50 - 141*	*08/06/21 13:30*	*08/10/21 03:37*	*50*
Toluene-d8 (Surr)	*82*		*52 - 141*	*08/06/21 13:30*	*08/10/21 03:37*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**11**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Benzo[a]anthracene	**16**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Benzo[a]pyrene	**15**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Benzo[b]fluoranthene	**23**		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Benzo[g,h,i]perylene	**14**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Chrysene	**26**		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Fluorene	**11**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Phenanthrene	**31**		20	4.8	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1
Pyrene	**22**		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/10/21 09:43*	*08/12/21 04:05*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/10/21 09:43*	*08/12/21 04:05*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/10/21 09:43*	*08/12/21 04:05*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**16**		1.7	0.66	mg/Kg	☼	08/06/21 10:20	08/10/21 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.2**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 16 (2)

Lab Sample ID: 410-50151-30
Date Collected: 08/04/21 14:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 82.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.7	0.46	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
1,2-Dichloroethane	ND		5.7	0.69	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
1,3,5-Trimethylbenzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
Toluene	ND		5.7	0.69	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
Xylenes, Total	ND		11	1.6	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
Methyl tertiary butyl ether	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
Benzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
Naphthalene	ND		5.7	2.3	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
1,2,4-Trimethylbenzene	ND		5.7	0.57	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
Isopropylbenzene	ND		5.7	0.46	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1
1,2-Dibromoethane	ND		5.7	0.46	ug/Kg	☼	08/06/21 13:58	08/10/21 12:28	1

Client Sample ID: Pipe 16 (2)

Lab Sample ID: 410-50151-30

Date Collected: 08/04/21 14:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 82.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*54 - 135*	*08/06/21 13:58*	*08/10/21 12:28*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/06/21 13:58*	*08/10/21 12:28*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/06/21 13:58*	*08/10/21 12:28*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/06/21 13:58*	*08/10/21 12:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Benzo[a]anthracene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Benzo[a]pyrene	**4.5**	**J**	20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Benzo[b]fluoranthene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Benzo[g,h,i]perylene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Chrysene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Fluorene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Phenanthrene	ND		20	4.8	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1
Pyrene	ND		20	4.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*	*08/10/21 09:43*	*08/12/21 04:27*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/10/21 09:43*	*08/12/21 04:27*	*1*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*	*08/10/21 09:43*	*08/12/21 04:27*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.0**		1.4	0.54	mg/Kg	☼	08/06/21 10:20	08/10/21 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.7**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Pipe 60 (2)

Lab Sample ID: 410-50151-31

Date Collected: 08/05/21 12:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 79.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.9	0.55	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
1,2-Dichloroethane	ND		6.9	0.82	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
1,3,5-Trimethylbenzene	ND		6.9	0.69	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
Toluene	**3.9**	**J**	6.9	0.82	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
Xylenes, Total	**3.8**	**J**	14	1.9	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
Methyl tertiary butyl ether	ND		6.9	0.69	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
Benzene	**2.0**	**J**	6.9	0.69	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
Naphthalene	**5.0**	**J**	6.9	2.7	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
1,2,4-Trimethylbenzene	ND		6.9	0.69	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
Isopropylbenzene	ND		6.9	0.55	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1
1,2-Dibromoethane	ND		6.9	0.55	ug/Kg	☼	08/06/21 13:58	08/10/21 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/06/21 13:58*	*08/10/21 12:50*	*1*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/06/21 13:58*	*08/10/21 12:50*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/06/21 13:58*	*08/10/21 12:50*	*1*

Client Sample ID: Pipe 60 (2)

Lab Sample ID: 410-50151-31

Date Collected: 08/05/21 12:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 79.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/06/21 13:58*	*08/10/21 12:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**130**		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Benzo[a]anthracene	**10**	**J**	21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Benzo[a]pyrene	**10**	**J**	21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Benzo[b]fluoranthene	**13**	**J**	21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Benzo[g,h,i]perylene	**8.5**	**J**	21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Chrysene	**23**		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Phenanthrene	**110**		21	5.0	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1
Pyrene	**22**		21	4.2	ug/Kg	☼	08/10/21 09:43	08/12/21 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*76*		*39 - 100*	*08/10/21 09:43*	*08/12/21 04:50*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/10/21 09:43*	*08/12/21 04:50*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/10/21 09:43*	*08/12/21 04:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**190**		1.3	0.53	mg/Kg	☼	08/06/21 11:08	08/10/21 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.4**		1.0	1.0	%			08/06/21 09:31	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-50151-32

Date Collected: 08/04/21 00:00
Matrix: Water
Date Received: 08/05/21 16:02

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/10/21 20:31	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/10/21 20:31	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/10/21 20:31	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:31	1
Toluene	ND		1.0	0.30	ug/L			08/10/21 20:31	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/10/21 20:31	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/10/21 20:31	1
Benzene	ND		1.0	0.30	ug/L			08/10/21 20:31	1
Naphthalene	ND		5.0	1.0	ug/L			08/10/21 20:31	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/10/21 20:31	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*08/10/21 20:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/10/21 20:31*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*08/10/21 20:31*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/10/21 20:31*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-50151-1	4847-P6 (3)	114	87	102	93
410-50151-2	Pipe 15 (2)	117	86	103	92
410-50151-3	4847-P2 (3)	118	87	103	90
410-50151-4	4847-P1 (3)	119	88	105	91
410-50151-5	4847-P3 (3)	122	88	106	92
410-50151-6	1043-P3 (3)	117	78	108	100
410-50151-7	DUP-2	117	76	106	102
410-50151-8	Pipe 61 (2)	119	86	104	92
410-50151-9	1043-P2 (3)	116	78	104	100
410-50151-10	Pipe 11 (2)	117	91	103	92
410-50151-11	1248-P5 (3)	85	84	85	82
410-50151-12	Pipe 14 (2)	112	93	101	91
410-50151-13	1248-P4 (3)	119	88	106	93
410-50151-14	1248-P3 (3)	107	84	98	96
410-50151-15	1248-P2 (3)	118	88	105	92
410-50151-16	DUP-1	120	86	107	92
410-50151-17	Pipe 1 (2)	120	89	103	91
410-50151-18	1248-P1 (3)	116	91	106	91
410-50151-19	Pipe 2 (2)	116 *3	78 *3	103 *3	93 *3
410-50151-20	Pipe 3 (2)	111	84	105	97
410-50151-21	Pipe 5 (2)	103	89	100	96
410-50151-22	Pipe 7 (2)	97	98	93	117
410-50151-22 - DL	Pipe 7 (2)	80	104	78	96
410-50151-23	Pipe 8 (2)	104	91	82	101
410-50151-23 - DL	Pipe 8 (2)	93	107	81	104
410-50151-24	Pipe 6 (2)	112	87	100	96
410-50151-25	Pipe 10 (2)	101	74	96	87
410-50151-26	Pipe 9 (2)	103	93	97	85
410-50151-27	Pipe 12 (2)	108	100	103	85
410-50151-28	Pipe 13 (2)	105	125	99	98
410-50151-29	Pipe 17 (2)	90	96	101	82
410-50151-30	Pipe 16 (2)	119	87	103	92
410-50151-31	Pipe 60 (2)	113	82	102	98
LCS 410-158050/4	Lab Control Sample	106	94	96	97
LCS 410-158385/4	Lab Control Sample	102	89	99	92
LCS 410-158503/5	Lab Control Sample	90	98	93	98
LCS 410-158553/4	Lab Control Sample	108	95	97	97
LCSD 410-158050/5	Lab Control Sample Dup	108	93	98	97
LCSD 410-158385/5	Lab Control Sample Dup	102	88	98	91
LCSD 410-158503/6	Lab Control Sample Dup	89	98	92	99
LCSD 410-158553/5	Lab Control Sample Dup	103	94	95	97
MB 410-158050/7	Method Blank	107	88	100	92
MB 410-158385/7	Method Blank	102	88	99	95
MB 410-158503/10	Method Blank	95	98	92	98
MB 410-158553/7	Method Blank	108	87	100	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Job ID: 410-50151-1
Project/Site: PBF Logistics

TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-50151-32	Trip Blank	98	101	107	97
LCS 410-158775/4	Lab Control Sample	100	102	105	98
LCSD 410-158775/5	Lab Control Sample Dup	100	101	104	97
MB 410-158775/6	Method Blank	97	101	105	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-50151-1	4847-P6 (3)	16 S1-	35	5 S1-
410-50151-2	Pipe 15 (2)	84	71	84
410-50151-3	4847-P2 (3)	90	76	87
410-50151-4	4847-P1 (3)	89	76	89
410-50151-5	4847-P3 (3)	89	77	89
410-50151-6	1043-P3 (3)	83	64	76
410-50151-7	DUP-2	4 S1-	1 S1-	24 S1-
410-50151-8	Pipe 61 (2)	83	74	85
410-50151-9	1043-P2 (3)	82	69	82
410-50151-10	Pipe 11 (2)	85	73	96
410-50151-10 MS	Pipe 11 (2)	72	62	94
410-50151-10 MSD	Pipe 11 (2)	79	71	94
410-50151-11	1248-P5 (3)	71	63	85
410-50151-12	Pipe 14 (2)	83	74	95
410-50151-13	1248-P4 (3)	87	72	100
410-50151-14	1248-P3 (3)	89	77	103
410-50151-15	1248-P2 (3)	80	67	103
410-50151-16	DUP-1	86	71	101
410-50151-17	Pipe 1 (2)	88	77	102
410-50151-18	1248-P1 (3)	86	75	101
410-50151-19	Pipe 2 (2)	81	70	93
410-50151-20	Pipe 3 (2)	70	64	89
410-50151-21	Pipe 5 (2)	84	74	97
410-50151-22	Pipe 7 (2)	72	80	86
410-50151-23	Pipe 8 (2)	54	61	75
410-50151-23 MS	Pipe 8 (2)	45	51	56
410-50151-23 MSD	Pipe 8 (2)	81	72	79
410-50151-24	Pipe 6 (2)	86	73	81
410-50151-25	Pipe 10 (2)	69	55	78
410-50151-26	Pipe 9 (2)	63	56	73
410-50151-27	Pipe 12 (2)	74	70	80
410-50151-28	Pipe 13 (2)	83	83	84

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 410-50151-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-50151-29	Pipe 17 (2)	89	73	87
410-50151-30	Pipe 16 (2)	87	71	88
410-50151-31	Pipe 60 (2)	76	64	80
LCS 410-158484/2-A	Lab Control Sample	76	67	88
LCS 410-158764/2-A	Lab Control Sample	98	79	92
LCS 410-159833/2-A	Lab Control Sample	93	74	92
LCS 410-160040/2-A	Lab Control Sample	77	68	88
MB 410-158484/1-A	Method Blank	83	75	97
MB 410-158764/1-A	Method Blank	91	79	94
MB 410-159833/1-A	Method Blank	87	69	90
MB 410-160040/1-A	Method Blank	81	72	102

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-158050/7
Matrix: Solid
Analysis Batch: 158050

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/09/21 11:04	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/09/21 11:04	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/09/21 11:04	1
Toluene	ND		5.0	0.60	ug/Kg			08/09/21 11:04	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/09/21 11:04	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/09/21 11:04	1
Benzene	ND		5.0	0.50	ug/Kg			08/09/21 11:04	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/09/21 11:04	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/09/21 11:04	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/09/21 11:04	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/09/21 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*		*08/09/21 11:04*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*		*08/09/21 11:04*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*		*08/09/21 11:04*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*		*08/09/21 11:04*	*1*

Lab Sample ID: LCS 410-158050/4
Matrix: Solid
Analysis Batch: 158050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	17.2		ug/Kg		86	78 - 120
1,2-Dichloroethane	20.0	16.4		ug/Kg		82	71 - 128
1,3,5-Trimethylbenzene	20.0	16.8		ug/Kg		84	73 - 120
Toluene	20.0	16.2		ug/Kg		81	80 - 120
Xylenes, Total	60.0	48.0		ug/Kg		80	75 - 120
Methyl tertiary butyl ether	20.0	15.3		ug/Kg		77	72 - 120
Benzene	20.0	18.1		ug/Kg		90	80 - 120
Naphthalene	20.0	14.6		ug/Kg		73	48 - 130
1,2,4-Trimethylbenzene	20.0	16.9		ug/Kg		84	73 - 120
Isopropylbenzene	20.0	15.5		ug/Kg		78	77 - 120
1,2-Dibromoethane	20.0	16.6		ug/Kg		83	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*96*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: LCSD 410-158050/5
Matrix: Solid
Analysis Batch: 158050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	17.4		ug/Kg		87	78 - 120	1	30
1,2-Dichloroethane	20.0	16.4		ug/Kg		82	71 - 128	0	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-158050/5
Matrix: Solid
Analysis Batch: 158050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	16.8		ug/Kg		84	73 - 120	0	30
Toluene			20.0	16.5		ug/Kg		83	80 - 120	2	30
Xylenes, Total			60.0	48.7		ug/Kg		81	75 - 120	1	30
Methyl tertiary butyl ether			20.0	16.2		ug/Kg		81	72 - 120	5	30
Benzene			20.0	18.6		ug/Kg		93	80 - 120	3	30
Naphthalene			20.0	15.4		ug/Kg		77	48 - 130	6	30
1,2,4-Trimethylbenzene			20.0	16.8		ug/Kg		84	73 - 120	0	30
Isopropylbenzene			20.0	15.7		ug/Kg		79	77 - 120	1	30
1,2-Dibromoethane			20.0	17.6		ug/Kg		88	76 - 120	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*
Dibromofluoromethane (Surr)	*98*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: MB 410-158385/7
Matrix: Solid
Analysis Batch: 158385

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/09/21 23:20	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/09/21 23:20	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/09/21 23:20	50
Toluene	ND		250	30	ug/Kg			08/09/21 23:20	50
Xylenes, Total	ND		500	70	ug/Kg			08/09/21 23:20	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/09/21 23:20	50
Benzene	ND		250	25	ug/Kg			08/09/21 23:20	50
Naphthalene	ND		250	100	ug/Kg			08/09/21 23:20	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/09/21 23:20	50
Isopropylbenzene	ND		250	20	ug/Kg			08/09/21 23:20	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/09/21 23:20	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*		*08/09/21 23:20*	*50*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*		*08/09/21 23:20*	*50*
Dibromofluoromethane (Surr)	*99*		*50 - 141*		*08/09/21 23:20*	*50*
Toluene-d8 (Surr)	*95*		*52 - 141*		*08/09/21 23:20*	*50*

Lab Sample ID: LCS 410-158385/4
Matrix: Solid
Analysis Batch: 158385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	928		ug/Kg		93	78 - 120
1,2-Dichloroethane			1000	920		ug/Kg		92	71 - 128
1,3,5-Trimethylbenzene			1000	865		ug/Kg		86	73 - 120
Toluene			1000	950		ug/Kg		95	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-158385/4
Matrix: Solid
Analysis Batch: 158385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	3000	2890		ug/Kg		96	75 - 120
Methyl tertiary butyl ether	1000	936		ug/Kg		94	72 - 120
Benzene	1000	985		ug/Kg		99	80 - 120
Naphthalene	1000	897		ug/Kg		90	48 - 130
1,2,4-Trimethylbenzene	1000	858		ug/Kg		86	73 - 120
Isopropylbenzene	1000	947		ug/Kg		95	77 - 120
1,2-Dibromoethane	1000	988		ug/Kg		99	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: LCSD 410-158385/5
Matrix: Solid
Analysis Batch: 158385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	1000	912		ug/Kg		91	78 - 120	2	30
1,2-Dichloroethane	1000	920		ug/Kg		92	71 - 128	0	30
1,3,5-Trimethylbenzene	1000	844		ug/Kg		84	73 - 120	2	30
Toluene	1000	937		ug/Kg		94	80 - 120	1	30
Xylenes, Total	3000	2840		ug/Kg		95	75 - 120	2	30
Methyl tertiary butyl ether	1000	926		ug/Kg		93	72 - 120	1	30
Benzene	1000	970		ug/Kg		97	80 - 120	2	30
Naphthalene	1000	875		ug/Kg		88	48 - 130	2	30
1,2,4-Trimethylbenzene	1000	850		ug/Kg		85	73 - 120	1	30
Isopropylbenzene	1000	930		ug/Kg		93	77 - 120	2	30
1,2-Dibromoethane	1000	971		ug/Kg		97	76 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*
Dibromofluoromethane (Surr)	*98*		*50 - 141*
Toluene-d8 (Surr)	*91*		*52 - 141*

Lab Sample ID: MB 410-158503/10
Matrix: Solid
Analysis Batch: 158503

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/10/21 12:11	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/10/21 12:11	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/10/21 12:11	50
Toluene	ND		250	30	ug/Kg			08/10/21 12:11	50
Xylenes, Total	ND		500	70	ug/Kg			08/10/21 12:11	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/10/21 12:11	50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-158503/10
Matrix: Solid
Analysis Batch: 158503

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		250	25	ug/Kg			08/10/21 12:11	50
Naphthalene	ND		250	100	ug/Kg			08/10/21 12:11	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/10/21 12:11	50
Isopropylbenzene	ND		250	20	ug/Kg			08/10/21 12:11	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/10/21 12:11	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*54 - 135*		*08/10/21 12:11*	*50*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*		*08/10/21 12:11*	*50*
Dibromofluoromethane (Surr)	*92*		*50 - 141*		*08/10/21 12:11*	*50*
Toluene-d8 (Surr)	*98*		*52 - 141*		*08/10/21 12:11*	*50*

Lab Sample ID: LCS 410-158503/5
Matrix: Solid
Analysis Batch: 158503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	989		ug/Kg		99	78 - 120		
1,2-Dichloroethane			1000	927		ug/Kg		93	71 - 128		
1,3,5-Trimethylbenzene			1000	1020		ug/Kg		102	73 - 120		
Toluene			1000	986		ug/Kg		99	80 - 120		
Xylenes, Total			3000	2930		ug/Kg		98	75 - 120		
Methyl tertiary butyl ether			1000	945		ug/Kg		95	72 - 120		
Benzene			1000	919		ug/Kg		92	80 - 120		
Naphthalene			1000	752		ug/Kg		75	48 - 130		
1,2,4-Trimethylbenzene			1000	1010		ug/Kg		101	73 - 120		
Isopropylbenzene			1000	997		ug/Kg		100	77 - 120		
1,2-Dibromoethane			1000	971		ug/Kg		97	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*93*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: LCSD 410-158503/6
Matrix: Solid
Analysis Batch: 158503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	998		ug/Kg		100	78 - 120	1	30
1,2-Dichloroethane			1000	911		ug/Kg		91	71 - 128	2	30
1,3,5-Trimethylbenzene			1000	1020		ug/Kg		102	73 - 120	0	30
Toluene			1000	992		ug/Kg		99	80 - 120	1	30
Xylenes, Total			3000	2950		ug/Kg		98	75 - 120	1	30
Methyl tertiary butyl ether			1000	928		ug/Kg		93	72 - 120	2	30
Benzene			1000	925		ug/Kg		93	80 - 120	1	30
Naphthalene			1000	836		ug/Kg		84	48 - 130	11	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-158503/6
Matrix: Solid
Analysis Batch: 158503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			1000	1020		ug/Kg		102	73 - 120	1	30
Isopropylbenzene			1000	1020		ug/Kg		102	77 - 120	2	30
1,2-Dibromoethane			1000	969		ug/Kg		97	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*92*		*50 - 141*
Toluene-d8 (Surr)	*99*		*52 - 141*

Lab Sample ID: MB 410-158553/7
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/10/21 11:44	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/10/21 11:44	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Toluene	ND		5.0	0.60	ug/Kg			08/10/21 11:44	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/10/21 11:44	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Benzene	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/10/21 11:44	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/10/21 11:44	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/10/21 11:44	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/10/21 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*		*08/10/21 11:44*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*		*08/10/21 11:44*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*		*08/10/21 11:44*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*		*08/10/21 11:44*	*1*

Lab Sample ID: LCS 410-158553/4
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			20.0	18.9		ug/Kg		95	78 - 120
1,2-Dichloroethane			20.0	16.5		ug/Kg		83	71 - 128
1,3,5-Trimethylbenzene			20.0	17.9		ug/Kg		89	73 - 120
Toluene			20.0	17.4		ug/Kg		87	80 - 120
Xylenes, Total			60.0	51.9		ug/Kg		87	75 - 120
Methyl tertiary butyl ether			20.0	16.8		ug/Kg		84	72 - 120
Benzene			20.0	19.8		ug/Kg		99	80 - 120
Naphthalene			20.0	15.4		ug/Kg		77	48 - 130
1,2,4-Trimethylbenzene			20.0	17.8		ug/Kg		89	73 - 120
Isopropylbenzene			20.0	16.9		ug/Kg		85	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-158553/4
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	17.6		ug/Kg		88	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: LCSD 410-158553/5
Matrix: Solid
Analysis Batch: 158553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.8		ug/Kg		94	78 - 120	0	30
1,2-Dichloroethane			20.0	16.5		ug/Kg		82	71 - 128	0	30
1,3,5-Trimethylbenzene			20.0	18.0		ug/Kg		90	73 - 120	1	30
Toluene			20.0	17.8		ug/Kg		89	80 - 120	2	30
Xylenes, Total			60.0	51.9		ug/Kg		87	75 - 120	0	30
Methyl tertiary butyl ether			20.0	15.8		ug/Kg		79	72 - 120	6	30
Benzene			20.0	19.7		ug/Kg		99	80 - 120	0	30
Naphthalene			20.0	14.0		ug/Kg		70	48 - 130	9	30
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		90	73 - 120	1	30
Isopropylbenzene			20.0	16.9		ug/Kg		84	77 - 120	0	30
1,2-Dibromoethane			20.0	17.0		ug/Kg		85	76 - 120	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-158775/6
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/10/21 20:07	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/10/21 20:07	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/10/21 20:07	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:07	1
Toluene	ND		1.0	0.30	ug/L			08/10/21 20:07	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/10/21 20:07	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/10/21 20:07	1
Benzene	ND		1.0	0.30	ug/L			08/10/21 20:07	1
Naphthalene	ND		5.0	1.0	ug/L			08/10/21 20:07	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/10/21 20:07	1

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-158775/6
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.30	ug/L			08/10/21 20:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/10/21 20:07*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/10/21 20:07*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*08/10/21 20:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/10/21 20:07*	*1*

Lab Sample ID: LCS 410-158775/4
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	18.6		ug/L		93	77 - 120		
Ethylbenzene			20.0	18.8		ug/L		94	80 - 120		
1,2-Dichloroethane			20.0	17.9		ug/L		89	73 - 124		
1,3,5-Trimethylbenzene			20.0	18.1		ug/L		91	75 - 120		
Toluene			20.0	18.4		ug/L		92	80 - 120		
Xylenes, Total			60.0	55.4		ug/L		92	80 - 120		
Methyl tertiary butyl ether			20.0	18.8		ug/L		94	69 - 122		
Benzene			20.0	18.9		ug/L		95	80 - 120		
Naphthalene			20.0	18.0		ug/L		90	53 - 124		
1,2,4-Trimethylbenzene			20.0	17.9		ug/L		90	75 - 120		
Isopropylbenzene			20.0	18.5		ug/L		92	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 410-158775/5
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	19.7		ug/L		98	77 - 120	5	30
Ethylbenzene			20.0	20.4		ug/L		102	80 - 120	8	30
1,2-Dichloroethane			20.0	19.4		ug/L		97	73 - 124	8	30
1,3,5-Trimethylbenzene			20.0	19.6		ug/L		98	75 - 120	8	30
Toluene			20.0	19.9		ug/L		99	80 - 120	7	30
Xylenes, Total			60.0	59.7		ug/L		100	80 - 120	7	30
Methyl tertiary butyl ether			20.0	20.6		ug/L		103	69 - 122	9	30
Benzene			20.0	20.8		ug/L		104	80 - 120	10	30
Naphthalene			20.0	19.8		ug/L		99	53 - 124	9	30
1,2,4-Trimethylbenzene			20.0	19.6		ug/L		98	75 - 120	9	30
Isopropylbenzene			20.0	19.8		ug/L		99	80 - 120	7	30

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-158775/5
Matrix: Water
Analysis Batch: 158775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-158484/1-A
Matrix: Solid
Analysis Batch: 159419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158484

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Chrysene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Fluorene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Phenanthrene	ND		17	4.0	ug/Kg		08/10/21 09:43	08/12/21 00:33	1
Pyrene	ND		17	3.3	ug/Kg		08/10/21 09:43	08/12/21 00:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		39 - 100	08/10/21 09:43	08/12/21 00:33	1
Nitrobenzene-d5 (Surr)	75		32 - 97	08/10/21 09:43	08/12/21 00:33	1
p-Terphenyl-d14 (Surr)	97		45 - 108	08/10/21 09:43	08/12/21 00:33	1

Lab Sample ID: LCS 410-158484/2-A
Matrix: Solid
Analysis Batch: 159419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1350		ug/Kg		81	75 - 120
Benzo[a]anthracene	1670	1370		ug/Kg		82	73 - 120
Benzo[a]pyrene	1670	1530		ug/Kg		92	80 - 123
Benzo[b]fluoranthene	1670	1460		ug/Kg		87	63 - 120
Benzo[g,h,i]perylene	1670	1780		ug/Kg		107	77 - 120
Chrysene	1670	1430		ug/Kg		86	66 - 120
Fluorene	1670	1360		ug/Kg		81	68 - 120
Phenanthrene	1670	1310		ug/Kg		79	74 - 120
Pyrene	1670	1320		ug/Kg		79	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	76		39 - 100
Nitrobenzene-d5 (Surr)	67		32 - 97
p-Terphenyl-d14 (Surr)	88		45 - 108

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-50151-23 MS
Matrix: Solid
Analysis Batch: 159422

Client Sample ID: Pipe 8 (2)
Prep Type: Total/NA
Prep Batch: 158484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	450	FL F2	1900	1220	FL	ug/Kg	☼	40	75 - 120
Benzo[a]anthracene	9.9	J FL F2	1900	1150	FL	ug/Kg	☼	60	73 - 120
Benzo[a]pyrene	4.2	J FL F2	1900	1160	FL	ug/Kg	☼	61	80 - 123
Benzo[b]fluoranthene	4.1	J FL F2	1900	1050	FL	ug/Kg	☼	55	63 - 120
Benzo[g,h,i]perylene	ND	FL F2	1900	1210	FL	ug/Kg	☼	64	77 - 120
Chrysene	16	J FL F2	1900	1080	FL	ug/Kg	☼	56	66 - 120
Fluorene	1500	FL F2	1900	1780	FL	ug/Kg	☼	13	68 - 120
Phenanthrene	3400	FL F2	1900	2660	FL	ug/Kg	☼	-41	74 - 120
Pyrene	310	FL F2	1900	1190	FL	ug/Kg	☼	46	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*45*		*39 - 100*
Nitrobenzene-d5 (Surr)	*51*		*32 - 97*
p-Terphenyl-d14 (Surr)	*56*		*45 - 108*

Lab Sample ID: 410-50151-23 MSD
Matrix: Solid
Analysis Batch: 159422

Client Sample ID: Pipe 8 (2)
Prep Type: Total/NA
Prep Batch: 158484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	450	FL F2	1900	1960	F2	ug/Kg	☼	79	75 - 120	47	30
Benzo[a]anthracene	9.9	J FL F2	1900	1660	F2	ug/Kg	☼	87	73 - 120	36	30
Benzo[a]pyrene	4.2	J FL F2	1900	1660	F2	ug/Kg	☼	87	80 - 123	36	30
Benzo[b]fluoranthene	4.1	J FL F2	1900	1450	F2	ug/Kg	☼	76	63 - 120	33	30
Benzo[g,h,i]perylene	ND	FL F2	1900	1710	F2	ug/Kg	☼	90	77 - 120	34	30
Chrysene	16	J FL F2	1900	1580	F2	ug/Kg	☼	82	66 - 120	37	30
Fluorene	1500	FL F2	1900	3430	F2	ug/Kg	☼	100	68 - 120	64	30
Phenanthrene	3400	FL F2	1900	4710	E FL F2	ug/Kg	☼	67	74 - 120	56	30
Pyrene	310	FL F2	1900	1790	F2	ug/Kg	☼	78	70 - 120	41	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*

Lab Sample ID: MB 410-158764/1-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Chrysene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Fluorene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Phenanthrene	ND		17	4.0	ug/Kg		08/10/21 17:56	08/11/21 08:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-158764/1-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/10/21 17:56*	*08/11/21 08:09*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*08/10/21 17:56*	*08/11/21 08:09*	*1*
p-Terphenyl-d14 (Surr)	*94*		*45 - 108*	*08/10/21 17:56*	*08/11/21 08:09*	*1*

Lab Sample ID: LCS 410-158764/2-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1650		ug/Kg		99	75 - 120
Benzo[a]anthracene	1670	1670		ug/Kg		100	73 - 120
Benzo[a]pyrene	1670	1720		ug/Kg		103	80 - 123
Benzo[b]fluoranthene	1670	1510		ug/Kg		91	63 - 120
Benzo[g,h,i]perylene	1670	1710		ug/Kg		103	77 - 120
Chrysene	1670	1630		ug/Kg		98	66 - 120
Fluorene	1670	1800		ug/Kg		108	68 - 120
Phenanthrene	1670	1610		ug/Kg		97	74 - 120
Pyrene	1670	1640		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*98*		*39 - 100*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*

Lab Sample ID: MB 410-159833/1-A
Matrix: Solid
Analysis Batch: 160160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Chrysene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Fluorene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Phenanthrene	ND		17	4.0	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Pyrene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*	*08/12/21 18:24*	*08/13/21 11:50*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/12/21 18:24*	*08/13/21 11:50*	*1*
p-Terphenyl-d14 (Surr)	*90*		*45 - 108*	*08/12/21 18:24*	*08/13/21 11:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-159833/2-A
Matrix: Solid
Analysis Batch: 160160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1560		ug/Kg		94	75 - 120
Benzo[a]anthracene	1670	1730		ug/Kg		104	73 - 120
Benzo[a]pyrene	1670	1610		ug/Kg		97	80 - 123
Benzo[b]fluoranthene	1670	1370		ug/Kg		82	63 - 120
Benzo[g,h,i]perylene	1670	1760		ug/Kg		106	77 - 120
Chrysene	1670	1750		ug/Kg		105	66 - 120
Fluorene	1670	1710		ug/Kg		102	68 - 120
Phenanthrene	1670	1530		ug/Kg		92	74 - 120
Pyrene	1670	1560		ug/Kg		94	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*93*		*39 - 100*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*

Lab Sample ID: MB 410-160040/1-A
Matrix: Solid
Analysis Batch: 160469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Chrysene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Fluorene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Phenanthrene	ND		17	4.0	ug/Kg		08/13/21 09:46	08/13/21 23:41	1
Pyrene	ND		17	3.3	ug/Kg		08/13/21 09:46	08/13/21 23:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/13/21 09:46*	*08/13/21 23:41*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/13/21 09:46*	*08/13/21 23:41*	*1*
p-Terphenyl-d14 (Surr)	*102*		*45 - 108*	*08/13/21 09:46*	*08/13/21 23:41*	*1*

Lab Sample ID: LCS 410-160040/2-A
Matrix: Solid
Analysis Batch: 160469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1370		ug/Kg		82	75 - 120
Benzo[a]anthracene	1670	1430		ug/Kg		86	73 - 120
Benzo[a]pyrene	1670	1500		ug/Kg		90	80 - 123
Benzo[b]fluoranthene	1670	1320		ug/Kg		79	63 - 120
Benzo[g,h,i]perylene	1670	1680		ug/Kg		101	77 - 120
Chrysene	1670	1480		ug/Kg		89	66 - 120
Fluorene	1670	1400		ug/Kg		84	68 - 120
Phenanthrene	1670	1330		ug/Kg		80	74 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-160040/2-A
Matrix: Solid
Analysis Batch: 160469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160040

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Pyrene			1670	1330		ug/Kg		80	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*

Lab Sample ID: 410-50151-10 MS
Matrix: Solid
Analysis Batch: 160469

Client Sample ID: Pipe 11 (2)
Prep Type: Total/NA
Prep Batch: 160040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Anthracene	ND		1870	1550		ug/Kg	☼	83	75 - 120		
Benzo[a]anthracene	ND		1870	1710		ug/Kg	☼	91	73 - 120		
Benzo[a]pyrene	ND		1870	1710		ug/Kg	☼	91	80 - 123		
Benzo[b]fluoranthene	ND		1870	1520		ug/Kg	☼	81	63 - 120		
Benzo[g,h,i]perylene	ND		1870	1930		ug/Kg	☼	103	77 - 120		
Chrysene	ND		1870	1790		ug/Kg	☼	96	66 - 120		
Fluorene	ND		1870	1490		ug/Kg	☼	80	68 - 120		
Phenanthrene	ND		1870	1500		ug/Kg	☼	80	74 - 120		
Pyrene	ND		1870	1600		ug/Kg	☼	86	70 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*
Nitrobenzene-d5 (Surr)	*62*		*32 - 97*
p-Terphenyl-d14 (Surr)	*94*		*45 - 108*

Lab Sample ID: 410-50151-10 MSD
Matrix: Solid
Analysis Batch: 160469

Client Sample ID: Pipe 11 (2)
Prep Type: Total/NA
Prep Batch: 160040

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	ND		1870	1590		ug/Kg	☼	85	75 - 120	2	30
Benzo[a]anthracene	ND		1870	1640		ug/Kg	☼	87	73 - 120	4	30
Benzo[a]pyrene	ND		1870	1730		ug/Kg	☼	93	80 - 123	1	30
Benzo[b]fluoranthene	ND		1870	1510		ug/Kg	☼	81	63 - 120	1	30
Benzo[g,h,i]perylene	ND		1870	1870		ug/Kg	☼	100	77 - 120	3	30
Chrysene	ND		1870	1660		ug/Kg	☼	89	66 - 120	7	30
Fluorene	ND		1870	1600		ug/Kg	☼	85	68 - 120	7	30
Phenanthrene	ND		1870	1550		ug/Kg	☼	83	74 - 120	3	30
Pyrene	ND		1870	1580		ug/Kg	☼	84	70 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*
p-Terphenyl-d14 (Surr)	*94*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-157480/1-A
Matrix: Solid
Analysis Batch: 158685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/06/21 10:20	08/10/21 10:37	1

Lab Sample ID: LCS 410-157480/2-A
Matrix: Solid
Analysis Batch: 158685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.25		mg/Kg		105	80 - 120

Lab Sample ID: 410-50151-2 MS
Matrix: Solid
Analysis Batch: 158685

Client Sample ID: Pipe 15 (2)
Prep Type: Total/NA
Prep Batch: 157480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	11	FL F2	4.68	12.8	FL	mg/Kg	☼	39	75 - 125

Lab Sample ID: 410-50151-2 MSD
Matrix: Solid
Analysis Batch: 158685

Client Sample ID: Pipe 15 (2)
Prep Type: Total/NA
Prep Batch: 157480

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	11	FL F2	5.27	9.55	FL F2	mg/Kg	☼	-27	75 - 125	29	20

Lab Sample ID: 410-50151-2 DU
Matrix: Solid
Analysis Batch: 158685

Client Sample ID: Pipe 15 (2)
Prep Type: Total/NA
Prep Batch: 157480

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	11	FL F2	6.88	F3	mg/Kg	☼	46	20

Lab Sample ID: MB 410-157515/1-A
Matrix: Solid
Analysis Batch: 158735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 157515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/06/21 11:08	08/10/21 12:37	1

Lab Sample ID: LCS 410-157515/2-A
Matrix: Solid
Analysis Batch: 158735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 157515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	4.57		mg/Kg		91	80 - 120

GC/MS VOA

Prep Batch: 157578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	5035	
410-50151-2	Pipe 15 (2)	Total/NA	Solid	5035	
410-50151-3	4847-P2 (3)	Total/NA	Solid	5035	
410-50151-4	4847-P1 (3)	Total/NA	Solid	5035	
410-50151-5	4847-P3 (3)	Total/NA	Solid	5035	
410-50151-6	1043-P3 (3)	Total/NA	Solid	5035	
410-50151-7	DUP-2	Total/NA	Solid	5035	
410-50151-8	Pipe 61 (2)	Total/NA	Solid	5035	
410-50151-9	1043-P2 (3)	Total/NA	Solid	5035	
410-50151-10	Pipe 11 (2)	Total/NA	Solid	5035	
410-50151-12	Pipe 14 (2)	Total/NA	Solid	5035	
410-50151-13	1248-P4 (3)	Total/NA	Solid	5035	
410-50151-14	1248-P3 (3)	Total/NA	Solid	5035	
410-50151-15	1248-P2 (3)	Total/NA	Solid	5035	
410-50151-16	DUP-1	Total/NA	Solid	5035	
410-50151-17	Pipe 1 (2)	Total/NA	Solid	5035	
410-50151-18	1248-P1 (3)	Total/NA	Solid	5035	
410-50151-19	Pipe 2 (2)	Total/NA	Solid	5035	
410-50151-20	Pipe 3 (2)	Total/NA	Solid	5035	
410-50151-24	Pipe 6 (2)	Total/NA	Solid	5035	
410-50151-30	Pipe 16 (2)	Total/NA	Solid	5035	
410-50151-31	Pipe 60 (2)	Total/NA	Solid	5035	

Prep Batch: 157579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-11	1248-P5 (3)	Total/NA	Solid	5035	
410-50151-21	Pipe 5 (2)	Total/NA	Solid	5035	
410-50151-22 - DL	Pipe 7 (2)	Total/NA	Solid	5035	
410-50151-22	Pipe 7 (2)	Total/NA	Solid	5035	
410-50151-23 - DL	Pipe 8 (2)	Total/NA	Solid	5035	
410-50151-23	Pipe 8 (2)	Total/NA	Solid	5035	
410-50151-25	Pipe 10 (2)	Total/NA	Solid	5035	
410-50151-26	Pipe 9 (2)	Total/NA	Solid	5035	
410-50151-27	Pipe 12 (2)	Total/NA	Solid	5035	
410-50151-28	Pipe 13 (2)	Total/NA	Solid	5035	
410-50151-29	Pipe 17 (2)	Total/NA	Solid	5035	

Analysis Batch: 158050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	8260C	157578
410-50151-2	Pipe 15 (2)	Total/NA	Solid	8260C	157578
410-50151-3	4847-P2 (3)	Total/NA	Solid	8260C	157578
410-50151-4	4847-P1 (3)	Total/NA	Solid	8260C	157578
410-50151-5	4847-P3 (3)	Total/NA	Solid	8260C	157578
410-50151-6	1043-P3 (3)	Total/NA	Solid	8260C	157578
410-50151-7	DUP-2	Total/NA	Solid	8260C	157578
410-50151-8	Pipe 61 (2)	Total/NA	Solid	8260C	157578
410-50151-9	1043-P2 (3)	Total/NA	Solid	8260C	157578
410-50151-10	Pipe 11 (2)	Total/NA	Solid	8260C	157578
410-50151-12	Pipe 14 (2)	Total/NA	Solid	8260C	157578
410-50151-13	1248-P4 (3)	Total/NA	Solid	8260C	157578

GC/MS VOA (Continued)

Analysis Batch: 158050 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-14	1248-P3 (3)	Total/NA	Solid	8260C	157578
410-50151-15	1248-P2 (3)	Total/NA	Solid	8260C	157578
410-50151-16	DUP-1	Total/NA	Solid	8260C	157578
410-50151-17	Pipe 1 (2)	Total/NA	Solid	8260C	157578
410-50151-18	1248-P1 (3)	Total/NA	Solid	8260C	157578
410-50151-19	Pipe 2 (2)	Total/NA	Solid	8260C	157578
410-50151-20	Pipe 3 (2)	Total/NA	Solid	8260C	157578
410-50151-24	Pipe 6 (2)	Total/NA	Solid	8260C	157578
MB 410-158050/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-158050/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-158050/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 158385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-11	1248-P5 (3)	Total/NA	Solid	8260C	157579
410-50151-21	Pipe 5 (2)	Total/NA	Solid	8260C	157579
410-50151-22	Pipe 7 (2)	Total/NA	Solid	8260C	157579
410-50151-23	Pipe 8 (2)	Total/NA	Solid	8260C	157579
410-50151-25	Pipe 10 (2)	Total/NA	Solid	8260C	157579
410-50151-26	Pipe 9 (2)	Total/NA	Solid	8260C	157579
410-50151-27	Pipe 12 (2)	Total/NA	Solid	8260C	157579
410-50151-28	Pipe 13 (2)	Total/NA	Solid	8260C	157579
410-50151-29	Pipe 17 (2)	Total/NA	Solid	8260C	157579
MB 410-158385/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-158385/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-158385/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 158503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-22 - DL	Pipe 7 (2)	Total/NA	Solid	8260C	157579
410-50151-23 - DL	Pipe 8 (2)	Total/NA	Solid	8260C	157579
MB 410-158503/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-158503/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-158503/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 158553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-30	Pipe 16 (2)	Total/NA	Solid	8260C	157578
410-50151-31	Pipe 60 (2)	Total/NA	Solid	8260C	157578
MB 410-158553/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-158553/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-158553/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 158775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-32	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-158775/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-158775/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-158775/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

GC/MS Semi VOA

Prep Batch: 158484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-9	1043-P2 (3)	Total/NA	Solid	3546	
410-50151-23	Pipe 8 (2)	Total/NA	Solid	3546	
410-50151-24	Pipe 6 (2)	Total/NA	Solid	3546	
410-50151-25	Pipe 10 (2)	Total/NA	Solid	3546	
410-50151-26	Pipe 9 (2)	Total/NA	Solid	3546	
410-50151-27	Pipe 12 (2)	Total/NA	Solid	3546	
410-50151-28	Pipe 13 (2)	Total/NA	Solid	3546	
410-50151-29	Pipe 17 (2)	Total/NA	Solid	3546	
410-50151-30	Pipe 16 (2)	Total/NA	Solid	3546	
410-50151-31	Pipe 60 (2)	Total/NA	Solid	3546	
MB 410-158484/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158484/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-50151-23 MS	Pipe 8 (2)	Total/NA	Solid	3546	
410-50151-23 MSD	Pipe 8 (2)	Total/NA	Solid	3546	

Prep Batch: 158764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	3546	
410-50151-2	Pipe 15 (2)	Total/NA	Solid	3546	
410-50151-3	4847-P2 (3)	Total/NA	Solid	3546	
410-50151-4	4847-P1 (3)	Total/NA	Solid	3546	
410-50151-5	4847-P3 (3)	Total/NA	Solid	3546	
410-50151-7	DUP-2	Total/NA	Solid	3546	
410-50151-8	Pipe 61 (2)	Total/NA	Solid	3546	
410-50151-22	Pipe 7 (2)	Total/NA	Solid	3546	
MB 410-158764/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158764/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 158947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	8270D	158764
410-50151-2	Pipe 15 (2)	Total/NA	Solid	8270D	158764
410-50151-3	4847-P2 (3)	Total/NA	Solid	8270D	158764
410-50151-4	4847-P1 (3)	Total/NA	Solid	8270D	158764
410-50151-5	4847-P3 (3)	Total/NA	Solid	8270D	158764
410-50151-7	DUP-2	Total/NA	Solid	8270D	158764
410-50151-8	Pipe 61 (2)	Total/NA	Solid	8270D	158764
410-50151-22	Pipe 7 (2)	Total/NA	Solid	8270D	158764
MB 410-158764/1-A	Method Blank	Total/NA	Solid	8270D	158764
LCS 410-158764/2-A	Lab Control Sample	Total/NA	Solid	8270D	158764

Analysis Batch: 159419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-158484/1-A	Method Blank	Total/NA	Solid	8270D	158484
LCS 410-158484/2-A	Lab Control Sample	Total/NA	Solid	8270D	158484

Analysis Batch: 159422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-9	1043-P2 (3)	Total/NA	Solid	8270D	158484
410-50151-23	Pipe 8 (2)	Total/NA	Solid	8270D	158484
410-50151-24	Pipe 6 (2)	Total/NA	Solid	8270D	158484

GC/MS Semi VOA (Continued)

Analysis Batch: 159422 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-25	Pipe 10 (2)	Total/NA	Solid	8270D	158484
410-50151-26	Pipe 9 (2)	Total/NA	Solid	8270D	158484
410-50151-27	Pipe 12 (2)	Total/NA	Solid	8270D	158484
410-50151-28	Pipe 13 (2)	Total/NA	Solid	8270D	158484
410-50151-29	Pipe 17 (2)	Total/NA	Solid	8270D	158484
410-50151-30	Pipe 16 (2)	Total/NA	Solid	8270D	158484
410-50151-31	Pipe 60 (2)	Total/NA	Solid	8270D	158484
410-50151-23 MS	Pipe 8 (2)	Total/NA	Solid	8270D	158484
410-50151-23 MSD	Pipe 8 (2)	Total/NA	Solid	8270D	158484

Prep Batch: 159833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-6	1043-P3 (3)	Total/NA	Solid	3546	
MB 410-159833/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-159833/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 160040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-10	Pipe 11 (2)	Total/NA	Solid	3546	
410-50151-11	1248-P5 (3)	Total/NA	Solid	3546	
410-50151-12	Pipe 14 (2)	Total/NA	Solid	3546	
410-50151-13	1248-P4 (3)	Total/NA	Solid	3546	
410-50151-14	1248-P3 (3)	Total/NA	Solid	3546	
410-50151-15	1248-P2 (3)	Total/NA	Solid	3546	
410-50151-16	DUP-1	Total/NA	Solid	3546	
410-50151-17	Pipe 1 (2)	Total/NA	Solid	3546	
410-50151-18	1248-P1 (3)	Total/NA	Solid	3546	
410-50151-19	Pipe 2 (2)	Total/NA	Solid	3546	
410-50151-20	Pipe 3 (2)	Total/NA	Solid	3546	
410-50151-21	Pipe 5 (2)	Total/NA	Solid	3546	
MB 410-160040/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-160040/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-50151-10 MS	Pipe 11 (2)	Total/NA	Solid	3546	
410-50151-10 MSD	Pipe 11 (2)	Total/NA	Solid	3546	

Analysis Batch: 160160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-6	1043-P3 (3)	Total/NA	Solid	8270D	159833
MB 410-159833/1-A	Method Blank	Total/NA	Solid	8270D	159833
LCS 410-159833/2-A	Lab Control Sample	Total/NA	Solid	8270D	159833

Analysis Batch: 160469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-10	Pipe 11 (2)	Total/NA	Solid	8270D	160040
410-50151-11	1248-P5 (3)	Total/NA	Solid	8270D	160040
410-50151-12	Pipe 14 (2)	Total/NA	Solid	8270D	160040
410-50151-13	1248-P4 (3)	Total/NA	Solid	8270D	160040
410-50151-14	1248-P3 (3)	Total/NA	Solid	8270D	160040
410-50151-15	1248-P2 (3)	Total/NA	Solid	8270D	160040
410-50151-16	DUP-1	Total/NA	Solid	8270D	160040
410-50151-17	Pipe 1 (2)	Total/NA	Solid	8270D	160040

GC/MS Semi VOA (Continued)

Analysis Batch: 160469 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-18	1248-P1 (3)	Total/NA	Solid	8270D	160040
410-50151-19	Pipe 2 (2)	Total/NA	Solid	8270D	160040
410-50151-20	Pipe 3 (2)	Total/NA	Solid	8270D	160040
410-50151-21	Pipe 5 (2)	Total/NA	Solid	8270D	160040
MB 410-160040/1-A	Method Blank	Total/NA	Solid	8270D	160040
LCS 410-160040/2-A	Lab Control Sample	Total/NA	Solid	8270D	160040
410-50151-10 MS	Pipe 11 (2)	Total/NA	Solid	8270D	160040
410-50151-10 MSD	Pipe 11 (2)	Total/NA	Solid	8270D	160040

Metals

Prep Batch: 157480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	3050B	
410-50151-2	Pipe 15 (2)	Total/NA	Solid	3050B	
410-50151-3	4847-P2 (3)	Total/NA	Solid	3050B	
410-50151-4	4847-P1 (3)	Total/NA	Solid	3050B	
410-50151-5	4847-P3 (3)	Total/NA	Solid	3050B	
410-50151-6	1043-P3 (3)	Total/NA	Solid	3050B	
410-50151-7	DUP-2	Total/NA	Solid	3050B	
410-50151-8	Pipe 61 (2)	Total/NA	Solid	3050B	
410-50151-9	1043-P2 (3)	Total/NA	Solid	3050B	
410-50151-10	Pipe 11 (2)	Total/NA	Solid	3050B	
410-50151-12	Pipe 14 (2)	Total/NA	Solid	3050B	
410-50151-13	1248-P4 (3)	Total/NA	Solid	3050B	
410-50151-16	DUP-1	Total/NA	Solid	3050B	
410-50151-23	Pipe 8 (2)	Total/NA	Solid	3050B	
410-50151-25	Pipe 10 (2)	Total/NA	Solid	3050B	
410-50151-26	Pipe 9 (2)	Total/NA	Solid	3050B	
410-50151-27	Pipe 12 (2)	Total/NA	Solid	3050B	
410-50151-28	Pipe 13 (2)	Total/NA	Solid	3050B	
410-50151-29	Pipe 17 (2)	Total/NA	Solid	3050B	
410-50151-30	Pipe 16 (2)	Total/NA	Solid	3050B	
MB 410-157480/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-157480/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-50151-2 MS	Pipe 15 (2)	Total/NA	Solid	3050B	
410-50151-2 MSD	Pipe 15 (2)	Total/NA	Solid	3050B	
410-50151-2 DU	Pipe 15 (2)	Total/NA	Solid	3050B	

Prep Batch: 157515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-11	1248-P5 (3)	Total/NA	Solid	3050B	
410-50151-14	1248-P3 (3)	Total/NA	Solid	3050B	
410-50151-15	1248-P2 (3)	Total/NA	Solid	3050B	
410-50151-17	Pipe 1 (2)	Total/NA	Solid	3050B	
410-50151-18	1248-P1 (3)	Total/NA	Solid	3050B	
410-50151-19	Pipe 2 (2)	Total/NA	Solid	3050B	
410-50151-20	Pipe 3 (2)	Total/NA	Solid	3050B	
410-50151-21	Pipe 5 (2)	Total/NA	Solid	3050B	
410-50151-22	Pipe 7 (2)	Total/NA	Solid	3050B	
410-50151-24	Pipe 6 (2)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 157515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-31	Pipe 60 (2)	Total/NA	Solid	3050B	
MB 410-157515/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-157515/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 158685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	6010C	157480
410-50151-2	Pipe 15 (2)	Total/NA	Solid	6010C	157480
410-50151-3	4847-P2 (3)	Total/NA	Solid	6010C	157480
410-50151-4	4847-P1 (3)	Total/NA	Solid	6010C	157480
410-50151-5	4847-P3 (3)	Total/NA	Solid	6010C	157480
410-50151-6	1043-P3 (3)	Total/NA	Solid	6010C	157480
410-50151-7	DUP-2	Total/NA	Solid	6010C	157480
410-50151-8	Pipe 61 (2)	Total/NA	Solid	6010C	157480
410-50151-9	1043-P2 (3)	Total/NA	Solid	6010C	157480
410-50151-10	Pipe 11 (2)	Total/NA	Solid	6010C	157480
410-50151-12	Pipe 14 (2)	Total/NA	Solid	6010C	157480
410-50151-13	1248-P4 (3)	Total/NA	Solid	6010C	157480
410-50151-16	DUP-1	Total/NA	Solid	6010C	157480
410-50151-23	Pipe 8 (2)	Total/NA	Solid	6010C	157480
410-50151-25	Pipe 10 (2)	Total/NA	Solid	6010C	157480
410-50151-26	Pipe 9 (2)	Total/NA	Solid	6010C	157480
410-50151-27	Pipe 12 (2)	Total/NA	Solid	6010C	157480
410-50151-28	Pipe 13 (2)	Total/NA	Solid	6010C	157480
410-50151-29	Pipe 17 (2)	Total/NA	Solid	6010C	157480
410-50151-30	Pipe 16 (2)	Total/NA	Solid	6010C	157480
MB 410-157480/1-A	Method Blank	Total/NA	Solid	6010C	157480
LCS 410-157480/2-A	Lab Control Sample	Total/NA	Solid	6010C	157480
410-50151-2 MS	Pipe 15 (2)	Total/NA	Solid	6010C	157480
410-50151-2 MSD	Pipe 15 (2)	Total/NA	Solid	6010C	157480
410-50151-2 DU	Pipe 15 (2)	Total/NA	Solid	6010C	157480

Analysis Batch: 158735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-11	1248-P5 (3)	Total/NA	Solid	6010C	157515
410-50151-14	1248-P3 (3)	Total/NA	Solid	6010C	157515
410-50151-15	1248-P2 (3)	Total/NA	Solid	6010C	157515
410-50151-17	Pipe 1 (2)	Total/NA	Solid	6010C	157515
410-50151-18	1248-P1 (3)	Total/NA	Solid	6010C	157515
410-50151-19	Pipe 2 (2)	Total/NA	Solid	6010C	157515
410-50151-20	Pipe 3 (2)	Total/NA	Solid	6010C	157515
410-50151-21	Pipe 5 (2)	Total/NA	Solid	6010C	157515
410-50151-22	Pipe 7 (2)	Total/NA	Solid	6010C	157515
410-50151-24	Pipe 6 (2)	Total/NA	Solid	6010C	157515
410-50151-31	Pipe 60 (2)	Total/NA	Solid	6010C	157515
MB 410-157515/1-A	Method Blank	Total/NA	Solid	6010C	157515
LCS 410-157515/2-A	Lab Control Sample	Total/NA	Solid	6010C	157515

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

General Chemistry

Analysis Batch: 157442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-1	4847-P6 (3)	Total/NA	Solid	Moisture	
410-50151-2	Pipe 15 (2)	Total/NA	Solid	Moisture	
410-50151-3	4847-P2 (3)	Total/NA	Solid	Moisture	
410-50151-4	4847-P1 (3)	Total/NA	Solid	Moisture	
410-50151-5	4847-P3 (3)	Total/NA	Solid	Moisture	
410-50151-6	1043-P3 (3)	Total/NA	Solid	Moisture	
410-50151-7	DUP-2	Total/NA	Solid	Moisture	
410-50151-8	Pipe 61 (2)	Total/NA	Solid	Moisture	
410-50151-9	1043-P2 (3)	Total/NA	Solid	Moisture	
410-50151-10	Pipe 11 (2)	Total/NA	Solid	Moisture	
410-50151-11	1248-P5 (3)	Total/NA	Solid	Moisture	
410-50151-12	Pipe 14 (2)	Total/NA	Solid	Moisture	
410-50151-13	1248-P4 (3)	Total/NA	Solid	Moisture	
410-50151-14	1248-P3 (3)	Total/NA	Solid	Moisture	
410-50151-15	1248-P2 (3)	Total/NA	Solid	Moisture	
410-50151-16	DUP-1	Total/NA	Solid	Moisture	
410-50151-17	Pipe 1 (2)	Total/NA	Solid	Moisture	
410-50151-18	1248-P1 (3)	Total/NA	Solid	Moisture	
410-50151-19	Pipe 2 (2)	Total/NA	Solid	Moisture	
410-50151-20	Pipe 3 (2)	Total/NA	Solid	Moisture	

Analysis Batch: 157462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50151-21	Pipe 5 (2)	Total/NA	Solid	Moisture	
410-50151-22	Pipe 7 (2)	Total/NA	Solid	Moisture	
410-50151-23	Pipe 8 (2)	Total/NA	Solid	Moisture	
410-50151-24	Pipe 6 (2)	Total/NA	Solid	Moisture	
410-50151-25	Pipe 10 (2)	Total/NA	Solid	Moisture	
410-50151-26	Pipe 9 (2)	Total/NA	Solid	Moisture	
410-50151-27	Pipe 12 (2)	Total/NA	Solid	Moisture	
410-50151-28	Pipe 13 (2)	Total/NA	Solid	Moisture	
410-50151-29	Pipe 17 (2)	Total/NA	Solid	Moisture	
410-50151-30	Pipe 16 (2)	Total/NA	Solid	Moisture	
410-50151-31	Pipe 60 (2)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: 4847-P6 (3)

Lab Sample ID: 410-50151-1

Date Collected: 08/05/21 09:10

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 4847-P6 (3)

Lab Sample ID: 410-50151-1

Date Collected: 08/05/21 09:10

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 12:07	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 09:17	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:45	WJM9	ELLE

Client Sample ID: Pipe 15 (2)

Lab Sample ID: 410-50151-2

Date Collected: 08/05/21 09:30

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: Pipe 15 (2)

Lab Sample ID: 410-50151-2

Date Collected: 08/05/21 09:30

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 12:29	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 09:40	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 10:43	WJM9	ELLE

Client Sample ID: 4847-P2 (3)

Lab Sample ID: 410-50151-3

Date Collected: 08/05/21 10:40

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 4847-P2 (3)

Lab Sample ID: 410-50151-3

Date Collected: 08/05/21 10:40

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 12:52	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 10:02	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:35	WJM9	ELLE

Client Sample ID: 4847-P1 (3)

Lab Sample ID: 410-50151-4

Date Collected: 08/05/21 10:55

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 4847-P1 (3)

Lab Sample ID: 410-50151-4

Date Collected: 08/05/21 10:55

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 13:15	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 10:25	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:41	WJM9	ELLE

Client Sample ID: 4847-P3 (3)

Lab Sample ID: 410-50151-5

Date Collected: 08/05/21 11:00

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 4847-P3 (3)

Lab Sample ID: 410-50151-5

Date Collected: 08/05/21 11:00

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 13:38	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 10:47	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:22	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: 1043-P3 (3)

Lab Sample ID: 410-50151-6

Date Collected: 08/05/21 11:35
Date Received: 08/05/21 16:02

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1043-P3 (3)

Lab Sample ID: 410-50151-6

Date Collected: 08/05/21 11:35
Date Received: 08/05/21 16:02

Matrix: Solid
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 14:00	UCB5	ELLE
Total/NA	Prep	3546			159833	08/12/21 18:24	QQ3P	ELLE
Total/NA	Analysis	8270D		1	160160	08/13/21 12:35	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:25	WJM9	ELLE

Client Sample ID: DUP-2

Lab Sample ID: 410-50151-7

Date Collected: 08/05/21 00:00
Date Received: 08/05/21 16:02

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: DUP-2

Lab Sample ID: 410-50151-7

Date Collected: 08/05/21 00:00
Date Received: 08/05/21 16:02

Matrix: Solid
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 16:39	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 11:10	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:28	WJM9	ELLE

Client Sample ID: Pipe 61 (2)

Lab Sample ID: 410-50151-8

Date Collected: 08/05/21 11:50
Date Received: 08/05/21 16:02

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: Pipe 61 (2)

Lab Sample ID: 410-50151-8
Date Collected: 08/05/21 11:50
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 14:23	UCB5	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 11:32	ULM3	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:38	WJM9	ELLE

Client Sample ID: 1043-P2 (3)

Lab Sample ID: 410-50151-9
Date Collected: 08/05/21 11:45
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1043-P2 (3)

Lab Sample ID: 410-50151-9
Date Collected: 08/05/21 11:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 17:02	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 00:43	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:02	WJM9	ELLE

Client Sample ID: Pipe 11 (2)

Lab Sample ID: 410-50151-10
Date Collected: 08/04/21 08:45
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: Pipe 11 (2)

Lab Sample ID: 410-50151-10
Date Collected: 08/04/21 08:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:49	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 17:25	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 00:28	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:06	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: 1248-P5 (3)

Lab Sample ID: 410-50151-11

Date Collected: 08/04/21 09:00
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1248-P5 (3)

Lab Sample ID: 410-50151-11

Date Collected: 08/04/21 09:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 14:43	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 00:51	SWV2	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 01:39	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:38	WJM9	ELLE

Client Sample ID: Pipe 14 (2)

Lab Sample ID: 410-50151-12

Date Collected: 08/04/21 09:10
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: Pipe 14 (2)

Lab Sample ID: 410-50151-12

Date Collected: 08/04/21 09:10
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:49	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 17:47	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 02:02	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:31	WJM9	ELLE

Client Sample ID: 1248-P4 (3)

Lab Sample ID: 410-50151-13

Date Collected: 08/04/21 09:30
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1248-P4 (3)

Lab Sample ID: 410-50151-13

Date Collected: 08/04/21 09:30

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 14:46	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 02:26	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:18	WJM9	ELLE

Client Sample ID: 1248-P3 (3)

Lab Sample ID: 410-50151-14

Date Collected: 08/04/21 10:00

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1248-P3 (3)

Lab Sample ID: 410-50151-14

Date Collected: 08/04/21 10:00

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 18:10	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 02:49	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:34	WJM9	ELLE

Client Sample ID: 1248-P2 (3)

Lab Sample ID: 410-50151-15

Date Collected: 08/04/21 10:10

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1248-P2 (3)

Lab Sample ID: 410-50151-15

Date Collected: 08/04/21 10:10

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 15:08	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 03:13	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:21	WJM9	ELLE

Client Sample ID: DUP-1

Lab Sample ID: 410-50151-16

Date Collected: 08/04/21 00:00

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: DUP-1

Lab Sample ID: 410-50151-16

Date Collected: 08/04/21 00:00

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 15:31	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 03:37	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:15	WJM9	ELLE

Client Sample ID: Pipe 1 (2)

Lab Sample ID: 410-50151-17

Date Collected: 08/04/21 10:30

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: Pipe 1 (2)

Lab Sample ID: 410-50151-17

Date Collected: 08/04/21 10:30

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 19:18	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 04:00	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:28	WJM9	ELLE

Client Sample ID: 1248-P1 (3)

Lab Sample ID: 410-50151-18

Date Collected: 08/04/21 10:35

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: 1248-P1 (3)

Lab Sample ID: 410-50151-18

Date Collected: 08/04/21 10:35
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 15:54	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 04:24	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:25	WJM9	ELLE

Client Sample ID: Pipe 2 (2)

Lab Sample ID: 410-50151-19

Date Collected: 08/04/21 11:00
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: Pipe 2 (2)

Lab Sample ID: 410-50151-19

Date Collected: 08/04/21 11:00
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 18:33	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 04:48	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:18	WJM9	ELLE

Client Sample ID: Pipe 3 (2)

Lab Sample ID: 410-50151-20

Date Collected: 08/04/21 11:15
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157442	08/06/21 09:02	UGCW	ELLE

Client Sample ID: Pipe 3 (2)

Lab Sample ID: 410-50151-20

Date Collected: 08/04/21 11:15
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 16:17	UCB5	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 05:11	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:31	WJM9	ELLE

Client Sample ID: Pipe 5 (2)

Lab Sample ID: 410-50151-21

Date Collected: 08/04/21 11:20

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 5 (2)

Lab Sample ID: 410-50151-21

Date Collected: 08/04/21 11:20

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 13:30	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 01:12	SWV2	ELLE
Total/NA	Prep	3546			160040	08/13/21 09:46	U9KU	ELLE
Total/NA	Analysis	8270D		1	160469	08/14/21 05:34	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:02	WJM9	ELLE

Client Sample ID: Pipe 7 (2)

Lab Sample ID: 410-50151-22

Date Collected: 08/04/21 11:30

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 7 (2)

Lab Sample ID: 410-50151-22

Date Collected: 08/04/21 11:30

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	DL		157579	08/06/21 14:43	JJT8	ELLE
Total/NA	Analysis	8260C	DL	1000	158503	08/10/21 14:04	USEJ	ELLE
Total/NA	Prep	5035			157579	08/06/21 14:43	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 01:33	SWV2	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 11:55	ULM3	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:15	WJM9	ELLE

Client Sample ID: Pipe 8 (2)

Lab Sample ID: 410-50151-23

Date Collected: 08/04/21 11:40

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 8 (2)

Lab Sample ID: 410-50151-23

Date Collected: 08/04/21 11:40

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	DL		157579	08/06/21 14:43	JJT8	ELLE
Total/NA	Analysis	8260C	DL	1000	158503	08/10/21 14:26	USEJ	ELLE
Total/NA	Prep	5035			157579	08/06/21 14:43	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 01:53	SWV2	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 01:05	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 12:04	WJM9	ELLE

Client Sample ID: Pipe 6 (2)

Lab Sample ID: 410-50151-24

Date Collected: 08/04/21 11:50

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 6 (2)

Lab Sample ID: 410-50151-24

Date Collected: 08/04/21 11:50

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 14:36	JJT8	ELLE
Total/NA	Analysis	8260C		1	158050	08/09/21 18:55	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 02:12	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:06	WJM9	ELLE

Client Sample ID: Pipe 10 (2)

Lab Sample ID: 410-50151-25

Date Collected: 08/04/21 12:30

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 10 (2)

Lab Sample ID: 410-50151-25

Date Collected: 08/04/21 12:30

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 13:30	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 02:14	SWV2	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 02:35	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:57	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: Pipe 9 (2)

Lab Sample ID: 410-50151-26

Date Collected: 08/04/21 12:15
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 9 (2)

Lab Sample ID: 410-50151-26

Date Collected: 08/04/21 12:15
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 13:30	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 02:35	SWV2	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 02:57	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 12:01	WJM9	ELLE

Client Sample ID: Pipe 12 (2)

Lab Sample ID: 410-50151-27

Date Collected: 08/04/21 12:45
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 12 (2)

Lab Sample ID: 410-50151-27

Date Collected: 08/04/21 12:45
Matrix: Solid
Date Received: 08/05/21 16:02
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 13:30	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 02:56	SWV2	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 03:20	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 12:11	WJM9	ELLE

Client Sample ID: Pipe 13 (2)

Lab Sample ID: 410-50151-28

Date Collected: 08/04/21 13:00
Matrix: Solid
Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 13 (2)

Lab Sample ID: 410-50151-28

Date Collected: 08/04/21 13:00

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 13:30	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 03:16	SWV2	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 03:42	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 12:07	WJM9	ELLE

Client Sample ID: Pipe 17 (2)

Lab Sample ID: 410-50151-29

Date Collected: 08/04/21 13:20

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 17 (2)

Lab Sample ID: 410-50151-29

Date Collected: 08/04/21 13:20

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157579	08/06/21 13:30	JJT8	ELLE
Total/NA	Analysis	8260C		50	158385	08/10/21 03:37	SWV2	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 04:05	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 11:54	WJM9	ELLE

Client Sample ID: Pipe 16 (2)

Lab Sample ID: 410-50151-30

Date Collected: 08/04/21 14:00

Matrix: Solid

Date Received: 08/05/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 16 (2)

Lab Sample ID: 410-50151-30

Date Collected: 08/04/21 14:00

Matrix: Solid

Date Received: 08/05/21 16:02

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 12:28	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 04:27	UWHS	ELLE
Total/NA	Prep	3050B			157480	08/06/21 10:20	UAMX	ELLE
Total/NA	Analysis	6010C		1	158685	08/10/21 12:14	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Client Sample ID: Pipe 60 (2)

Lab Sample ID: 410-50151-31

Date Collected: 08/05/21 12:00
Date Received: 08/05/21 16:02

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	157462	08/06/21 09:31	UGCW	ELLE

Client Sample ID: Pipe 60 (2)

Lab Sample ID: 410-50151-31

Date Collected: 08/05/21 12:00
Date Received: 08/05/21 16:02

Matrix: Solid
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			157578	08/06/21 13:58	JJT8	ELLE
Total/NA	Analysis	8260C		1	158553	08/10/21 12:50	UCB5	ELLE
Total/NA	Prep	3546			158484	08/10/21 09:43	U9KU	ELLE
Total/NA	Analysis	8270D		1	159422	08/12/21 04:50	UWHS	ELLE
Total/NA	Prep	3050B			157515	08/06/21 11:08	UAMX	ELLE
Total/NA	Analysis	6010C		1	158735	08/10/21 13:41	WJM9	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-50151-32

Date Collected: 08/04/21 00:00
Date Received: 08/05/21 16:02

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	158775	08/10/21 20:31	LCW8	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50151-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-50151-1	4847-P6 (3)	Solid	08/05/21 09:10	08/05/21 16:02
410-50151-2	Pipe 15 (2)	Solid	08/05/21 09:30	08/05/21 16:02
410-50151-3	4847-P2 (3)	Solid	08/05/21 10:40	08/05/21 16:02
410-50151-4	4847-P1 (3)	Solid	08/05/21 10:55	08/05/21 16:02
410-50151-5	4847-P3 (3)	Solid	08/05/21 11:00	08/05/21 16:02
410-50151-6	1043-P3 (3)	Solid	08/05/21 11:35	08/05/21 16:02
410-50151-7	DUP-2	Solid	08/05/21 00:00	08/05/21 16:02
410-50151-8	Pipe 61 (2)	Solid	08/05/21 11:50	08/05/21 16:02
410-50151-9	1043-P2 (3)	Solid	08/05/21 11:45	08/05/21 16:02
410-50151-10	Pipe 11 (2)	Solid	08/04/21 08:45	08/05/21 16:02
410-50151-11	1248-P5 (3)	Solid	08/04/21 09:00	08/05/21 16:02
410-50151-12	Pipe 14 (2)	Solid	08/04/21 09:10	08/05/21 16:02
410-50151-13	1248-P4 (3)	Solid	08/04/21 09:30	08/05/21 16:02
410-50151-14	1248-P3 (3)	Solid	08/04/21 10:00	08/05/21 16:02
410-50151-15	1248-P2 (3)	Solid	08/04/21 10:10	08/05/21 16:02
410-50151-16	DUP-1	Solid	08/04/21 00:00	08/05/21 16:02
410-50151-17	Pipe 1 (2)	Solid	08/04/21 10:30	08/05/21 16:02
410-50151-18	1248-P1 (3)	Solid	08/04/21 10:35	08/05/21 16:02
410-50151-19	Pipe 2 (2)	Solid	08/04/21 11:00	08/05/21 16:02
410-50151-20	Pipe 3 (2)	Solid	08/04/21 11:15	08/05/21 16:02
410-50151-21	Pipe 5 (2)	Solid	08/04/21 11:20	08/05/21 16:02
410-50151-22	Pipe 7 (2)	Solid	08/04/21 11:30	08/05/21 16:02
410-50151-23	Pipe 8 (2)	Solid	08/04/21 11:40	08/05/21 16:02
410-50151-24	Pipe 6 (2)	Solid	08/04/21 11:50	08/05/21 16:02
410-50151-25	Pipe 10 (2)	Solid	08/04/21 12:30	08/05/21 16:02
410-50151-26	Pipe 9 (2)	Solid	08/04/21 12:15	08/05/21 16:02
410-50151-27	Pipe 12 (2)	Solid	08/04/21 12:45	08/05/21 16:02
410-50151-28	Pipe 13 (2)	Solid	08/04/21 13:00	08/05/21 16:02
410-50151-29	Pipe 17 (2)	Solid	08/04/21 13:20	08/05/21 16:02
410-50151-30	Pipe 16 (2)	Solid	08/04/21 14:00	08/05/21 16:02
410-50151-31	Pipe 60 (2)	Solid	08/05/21 12:00	08/05/21 16:02
410-50151-32	Trip Blank	Water	08/04/21 00:00	08/05/21 16:02

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-50151 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: SP/ZS/DH	Lab PM: Carter, Amek A	COC No: 410-30581-9562.1
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA
Company: Stantec Consulting Corp.	PWSID:	Analysis Requested	Page: Page 1 of 5
Address: 1060 Andrew Drive Suite 140	Due Date Requested:		Job #:
City: West Chester	TAT Requested (days): 5 day		Preservation Codes:
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Phone:	PO #: Purchase Order Requested		
Email: mark.schaeffer@stantec.com	WO #:		Other:
Project Name: PBF Logistics	Project #: 41007459		
Site: 51st Street Terminal	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Y/N)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	A		
4847-P6 (3)	8/5/21	0910	G	Solid		X	X	X		
Pipe 15 (2)	8/5/21	0930	G	Solid		X	X	X		
4847-P2 (3)	8/5/21	1040	G	Solid		X	X	X		
4847-P1 (3)	8/5/21	1055	G	Solid		X	X	X		
4847-P3 (3)	8/5/21	1100	G	Solid		X	X	X		
1043-P3 (3)	8/5/21	1135	G	Solid		X	X	X		
DUP-2	8/5/21	—	G	Solid		X	X	X		
Pipe 61 (2)	8/5/21	1150	G	Solid		X	X	X		
1043-P2 (3)	8/5/21	1145	G	Solid		X	X	X		
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/5/21 1225	Stantec	Pierre	8/5/21 17:26	
2	Pierre	8/5/21 1553				
3					8/5/21 1600	Cole

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.9-2.7

RAM RAM

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: IA/DC/DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-30581-9562.2
Client Contact: Mark Schaeffer	Phone: (484)467-3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 2 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 days			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Special Instructions/Note:
			Preservation Code:		N	N	A	
Pipe 11 (2)	8/4/21	0845	G	Solid	X	X	X	
1248-P5 (3)	8/4/21	0900	G	Solid	X	X	X	
Pipe 14 (2)	8/4/21	0910	G	Solid	X	X	X	
1248-P4 (3)	8/4/21	0930	G	Solid	X	X	X	
1248-P3 (3)	8/4/21	1000	G	Solid	X	X	X	
1248-P2 (3)	8/4/21	1010	G	Solid	X	X	X	
DUP-1	8/4/21	—	G	Solid	X	X	X	
Pipe 1 (2)	8/4/21	1030	G	Solid	X	X	X	
1248-P1 (3)	8/4/21	1035	G	Solid	X	X	X	
Pipe 2 (2)	8/4/21	1100	G	Solid	X	X	X	
Pipe 3 (2)	8/4/21	1115	G	Solid	X	X	X	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/5/21 1225	Stantec	Pierre	8/5/21 1225	
2	Pierre	8/5/21 1556				
3					8/5/21 1600	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9-2.7

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: IA/DC/DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-30581-9562 3
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 3 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5days			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A		
Pipe 5 (2)	8/4/21	1120	G	Solid			X	X	X		
Pipe 7 (2)	8/4/21	1130	G	Solid			X	X	X		
Pipe 8 (2)	8/4/21	1140	G	Solid			X	X	X		
Pipe 6 (2)	8/4/21	1150	G	Solid			X	X	X		
Pipe 10 (2)	8/4/21	1230	G	Solid			X	X	X		
Pipe 9 (2)	8/4/21	1215	G	Solid			X	X	X		
Pipe 12 (2)	8/4/21	1245	G	Solid			X	X	X		
Pipe 13 (2)	8/4/21	1300	G	Solid			X	X	X		
Pipe 17 (2)	8/4/21	1320	G	Solid			X	X	X		
Pipe 16 (2)	8/4/21	1400	G	Solid			X	X	X		
				Solid							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/5/21 1225	Stantec	Tierra	8/5/21 12:25	
2	Tierra	8/5/21 1555				
3					8/5/21 16:07	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9-2.7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-50151-1

Login Number: 50151

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Metzger, Katherine A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-50503-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/16/2021 12:53:34 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

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www.eurofinsus.com/Env

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
8/16/2021 12:53:34 PM

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Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
FL	MS and/or MSD recovery below control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-50503-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-50503-1

Receipt
The samples were received on 8/9/2021 4:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: Pipe 86 (2) (410-50503-3), Pipe 74 (2) (410-50503-4) and Pipe 72 (2) (410-50503-9). Elevated reporting limits (RLs) are provided.

Method 8260C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for analysis: Pipe 85 (2) (410-50503-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Client Sample ID: Pipe 85 (2) — Lab Sample ID: 410-50503-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	320		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	590		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	560		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	750		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	460		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	650		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	490		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	910		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1200		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	180		1.7	0.67	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-P4 (3) — Lab Sample ID: 410-50503-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	34		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	120		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	110		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	120		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	64		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	110		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	14	J	19	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	130		19	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	190		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	29		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 86 (2) — Lab Sample ID: 410-50503-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	53	J	410	49	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	48	J	410	32	ug/Kg	50	☼	8260C	Total/NA
Anthracene	3200		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4500		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	850		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene - DL	12000		230	46	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene - DL	7900		230	46	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	9900		230	46	ug/Kg	10	☼	8270D	Total/NA
Chrysene - DL	10000		230	46	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene - DL	11000		230	55	ug/Kg	10	☼	8270D	Total/NA
Pyrene - DL	16000		230	46	ug/Kg	10	☼	8270D	Total/NA
Lead	540		1.5	0.58	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 74 (2) — Lab Sample ID: 410-50503-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	61	J	370	30	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	66	J	370	37	ug/Kg	50	☼	8260C	Total/NA
Toluene	280	J	370	45	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	280	J	750	100	ug/Kg	50	☼	8260C	Total/NA
Benzene	55	J	370	37	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	430		370	150	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	92	J	370	37	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	670		370	30	ug/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 74 (2) (Continued)

Lab Sample ID: 410-50503-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	1500		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	4600		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	3800		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	4300		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2600		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	3800		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	510		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	4500		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene - DL	6500		110	22	ug/Kg	5	☼	8270D	Total/NA
Lead	160		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 84 (2)

Lab Sample ID: 410-50503-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.43	J	4.7	0.37	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.78	J	4.7	0.47	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.5	J	4.7	0.56	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.3	J	9.3	1.3	ug/Kg	1	☼	8260C	Total/NA
Benzene	8.6		4.7	0.47	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	3.2	J	4.7	1.9	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.77	J	4.7	0.47	ug/Kg	1	☼	8260C	Total/NA
Anthracene	1500		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	3400		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2600		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	3100		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1600		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	2800		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	610		18	3.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene - DL	4800		180	43	ug/Kg	10	☼	8270D	Total/NA
Pyrene - DL	5500		180	36	ug/Kg	10	☼	8270D	Total/NA
Lead	51		1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: UNK-ST-S (3)

Lab Sample ID: 410-50503-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.85	J	7.9	0.63	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	6.6	J	7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.8	J	7.9	0.94	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	7.2	J	16	2.2	ug/Kg	1	☼	8260C	Total/NA
Methyl tertiary butyl ether	1.8	J	7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.8	J	7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	3.3	J	7.9	3.1	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	12		7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
Anthracene	24	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	25	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	15	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	23	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	22	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	200		26	6.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	98		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Lead	39		2.2	0.87	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Client Sample ID: UNK-ST-N (3)

Lab Sample ID: 410-50503-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	310	J	430	34	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1100		430	43	ug/Kg	50	☼	8260C	Total/NA
Toluene	740		430	51	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	2400		860	120	ug/Kg	50	☼	8260C	Total/NA
Benzene	560		430	43	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	3400		430	170	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2800		430	43	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	120	J	430	34	ug/Kg	50	☼	8260C	Total/NA
Benzo[g,h,i]perylene	2700		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	3800		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Anthracene - DL	11000		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene - DL	8700		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene - DL	5300		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	6800		210	42	ug/Kg	10	☼	8270D	Total/NA
Chrysene - DL	8000		210	42	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene - DL	29000		210	51	ug/Kg	10	☼	8270D	Total/NA
Pyrene - DL	15000		210	42	ug/Kg	10	☼	8270D	Total/NA
Lead	65		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 71 (2)

Lab Sample ID: 410-50503-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	350	J	490	39	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	970		490	49	ug/Kg	50	☼	8260C	Total/NA
Toluene	170	J	490	59	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	1200		990	140	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1900		490	49	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	580		490	39	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	89		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	75		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	92		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	86		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	130		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	730	FL	27	5.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	680	FL	27	6.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	970		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Lead	130		2.3	0.93	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 72 (2)

Lab Sample ID: 410-50503-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	88	J	370	37	ug/Kg	50	☼	8260C	Total/NA
Toluene	230	J	370	44	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	330	J	730	100	ug/Kg	50	☼	8260C	Total/NA
Benzene	49	J	370	37	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	180	J	370	37	ug/Kg	50	☼	8260C	Total/NA
Anthracene	38		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	150		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	160		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	130		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	150		22	4.5	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 72 (2) (Continued)

Lab Sample ID: 410-50503-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	14	J	22	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	110		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	220		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	160		1.8	0.72	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 70 (2)

Lab Sample ID: 410-50503-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	80	J	520	41	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1100		520	52	ug/Kg	50	☼	8260C	Total/NA
Toluene	320	J	520	62	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	590	J	1000	140	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1500		520	52	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	46		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	56		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	69		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	58		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	76		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	590		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	760		27	6.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	470		27	5.3	ug/Kg	1	☼	8270D	Total/NA
Lead	750		2.3	0.92	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Dup-4

Lab Sample ID: 410-50503-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	100	J	470	37	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1300		470	47	ug/Kg	50	☼	8260C	Total/NA
Toluene	450	J	470	56	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	770	J	930	130	ug/Kg	50	☼	8260C	Total/NA
Benzene	68	J	470	47	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2100		470	47	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	41	J	470	37	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	69		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	47		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	79		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	54		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	150		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	1200		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1900		24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	780		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Lead	210		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-50503-12

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 85 (2)

Lab Sample ID: 410-50503-1

Date Collected: 08/06/21 12:45

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 74.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1000	83	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
1,2-Dichloroethane	ND		1000	130	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
1,3,5-Trimethylbenzene	ND		1000	100	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
Toluene	ND		1000	130	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
Xylenes, Total	ND		2100	290	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
Methyl tertiary butyl ether	ND		1000	100	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
Benzene	ND		1000	100	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
Naphthalene	ND		1000	420	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
1,2,4-Trimethylbenzene	ND		1000	100	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
Isopropylbenzene	ND		1000	83	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100
1,2-Dibromoethane	ND		1000	83	ug/Kg	☼	08/10/21 09:23	08/12/21 14:49	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/10/21 09:23*	*08/12/21 14:49*	*100*
4-Bromofluorobenzene (Surr)	*115*		*50 - 131*	*08/10/21 09:23*	*08/12/21 14:49*	*100*
Dibromofluoromethane (Surr)	*100*		*50 - 141*	*08/10/21 09:23*	*08/12/21 14:49*	*100*
Toluene-d8 (Surr)	*91*		*52 - 141*	*08/10/21 09:23*	*08/12/21 14:49*	*100*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**320**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Benzo[a]anthracene	**590**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Benzo[a]pyrene	**560**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Benzo[b]fluoranthene	**750**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Benzo[g,h,i]perylene	**460**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Chrysene	**650**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Fluorene	**490**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Phenanthrene	**910**		22	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1
Pyrene	**1200**		22	4.4	ug/Kg	☼	08/10/21 17:56	08/11/21 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*39 - 100*	*08/10/21 17:56*	*08/11/21 13:25*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/10/21 17:56*	*08/11/21 13:25*	*1*
p-Terphenyl-d14 (Surr)	*73*		*45 - 108*	*08/10/21 17:56*	*08/11/21 13:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**180**		1.7	0.67	mg/Kg	☼	08/09/21 20:35	08/12/21 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.6**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: 7551-P4 (3)

Lab Sample ID: 410-50503-2

Date Collected: 08/06/21 12:50

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 85.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		4.6	0.37	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
1,2-Dichloroethane	ND		4.6	0.55	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1

Client Sample ID: 7551-P4 (3)

Date Collected: 08/06/21 12:50
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-2

Matrix: Solid
Percent Solids: 85.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		4.6	0.46	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
Toluene	ND		4.6	0.55	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
Xylenes, Total	ND		9.1	1.3	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
Methyl tertiary butyl ether	ND		4.6	0.46	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
Benzene	ND		4.6	0.46	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
Naphthalene	ND		4.6	1.8	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
1,2,4-Trimethylbenzene	ND		4.6	0.46	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
Isopropylbenzene	ND		4.6	0.37	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1
1,2-Dibromoethane	ND		4.6	0.37	ug/Kg	☼	08/10/21 09:23	08/11/21 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/10/21 09:23*	*08/11/21 16:48*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*08/10/21 09:23*	*08/11/21 16:48*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/10/21 09:23*	*08/11/21 16:48*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/10/21 09:23*	*08/11/21 16:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**34**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Benzo[a]anthracene	**120**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Benzo[a]pyrene	**110**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Benzo[b]fluoranthene	**120**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Benzo[g,h,i]perylene	**64**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Chrysene	**110**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Fluorene	**14**	**J**	19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Phenanthrene	**130**		19	4.7	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1
Pyrene	**190**		19	3.9	ug/Kg	☼	08/10/21 17:56	08/11/21 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*39 - 100*	*08/10/21 17:56*	*08/11/21 13:48*	*1*
Nitrobenzene-d5 (Surr)	*77*		*32 - 97*	*08/10/21 17:56*	*08/11/21 13:48*	*1*
p-Terphenyl-d14 (Surr)	*93*		*45 - 108*	*08/10/21 17:56*	*08/11/21 13:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**29**		1.6	0.64	mg/Kg	☼	08/09/21 20:35	08/12/21 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.3**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Pipe 86 (2)

Date Collected: 08/06/21 13:00
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-3

Matrix: Solid
Percent Solids: 71.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		410	32	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
1,2-Dichloroethane	ND		410	49	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
1,3,5-Trimethylbenzene	ND		410	41	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
Toluene	**53**	**J**	410	49	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50

Client Sample ID: Pipe 86 (2)
Date Collected: 08/06/21 13:00
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-3
Matrix: Solid
Percent Solids: 71.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		810	110	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
Methyl tertiary butyl ether	ND		410	41	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
Benzene	ND		410	41	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
Naphthalene	ND		410	160	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
1,2,4-Trimethylbenzene	ND		410	41	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
Isopropylbenzene	**48**	**J**	410	32	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50
1,2-Dibromoethane	ND		410	32	ug/Kg	☼	08/10/21 09:23	08/12/21 15:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*74*		*54 - 135*	*08/10/21 09:23*	*08/12/21 15:10*	*50*
4-Bromofluorobenzene (Surr)	*66*		*50 - 131*	*08/10/21 09:23*	*08/12/21 15:10*	*50*
Dibromofluoromethane (Surr)	*73*		*50 - 141*	*08/10/21 09:23*	*08/12/21 15:10*	*50*
Toluene-d8 (Surr)	*68*		*52 - 141*	*08/10/21 09:23*	*08/12/21 15:10*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**3200**		23	4.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:11	1
Benzo[g,h,i]perylene	**4500**		23	4.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:11	1
Fluorene	**850**		23	4.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*08/10/21 17:56*	*08/11/21 14:11*	*1*
Nitrobenzene-d5 (Surr)	*59*		*32 - 97*	*08/10/21 17:56*	*08/11/21 14:11*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*	*08/10/21 17:56*	*08/11/21 14:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**12000**		230	46	ug/Kg	☼	08/10/21 17:56	08/11/21 23:35	10
Benzo[a]pyrene	**7900**		230	46	ug/Kg	☼	08/10/21 17:56	08/11/21 23:35	10
Benzo[b]fluoranthene	**9900**		230	46	ug/Kg	☼	08/10/21 17:56	08/11/21 23:35	10
Chrysene	**10000**		230	46	ug/Kg	☼	08/10/21 17:56	08/11/21 23:35	10
Phenanthrene	**11000**		230	55	ug/Kg	☼	08/10/21 17:56	08/11/21 23:35	10
Pyrene	**16000**		230	46	ug/Kg	☼	08/10/21 17:56	08/11/21 23:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*39 - 100*	*08/10/21 17:56*	*08/11/21 23:35*	*10*
Nitrobenzene-d5 (Surr)	*58*		*32 - 97*	*08/10/21 17:56*	*08/11/21 23:35*	*10*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/10/21 17:56*	*08/11/21 23:35*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**540**		1.5	0.58	mg/Kg	☼	08/09/21 20:35	08/12/21 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.5**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Pipe 74 (2)
Date Collected: 08/06/21 13:15
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-4
Matrix: Solid
Percent Solids: 74.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	61	J	370	30	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
1,2-Dichloroethane	ND		370	45	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
1,3,5-Trimethylbenzene	66	J	370	37	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
Toluene	280	J	370	45	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
Xylenes, Total	280	J	750	100	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
Methyl tertiary butyl ether	ND		370	37	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
Benzene	55	J	370	37	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
Naphthalene	430		370	150	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
1,2,4-Trimethylbenzene	92	J	370	37	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
Isopropylbenzene	670		370	30	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50
1,2-Dibromoethane	ND		370	30	ug/Kg	☼	08/10/21 09:23	08/12/21 15:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*68*		*54 - 135*	*08/10/21 09:23*	*08/12/21 15:31*	*50*
4-Bromofluorobenzene (Surr)	*61*		*50 - 131*	*08/10/21 09:23*	*08/12/21 15:31*	*50*
Dibromofluoromethane (Surr)	*60*		*50 - 141*	*08/10/21 09:23*	*08/12/21 15:31*	*50*
Toluene-d8 (Surr)	*63*		*52 - 141*	*08/10/21 09:23*	*08/12/21 15:31*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	1500		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Benzo[a]anthracene	4600		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Benzo[a]pyrene	3800		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Benzo[b]fluoranthene	4300		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Benzo[g,h,i]perylene	2600		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Chrysene	3800		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Fluorene	510		22	4.4	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1
Phenanthrene	4500		22	5.3	ug/Kg	☼	08/12/21 18:24	08/13/21 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*	*08/12/21 18:24*	*08/13/21 14:27*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/12/21 18:24*	*08/13/21 14:27*	*1*
p-Terphenyl-d14 (Surr)	*77*		*45 - 108*	*08/12/21 18:24*	*08/13/21 14:27*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	6500		110	22	ug/Kg	☼	08/12/21 18:24	08/13/21 23:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*	*08/12/21 18:24*	*08/13/21 23:44*	*5*
Nitrobenzene-d5 (Surr)	*62*		*32 - 97*	*08/12/21 18:24*	*08/13/21 23:44*	*5*
p-Terphenyl-d14 (Surr)	*77*		*45 - 108*	*08/12/21 18:24*	*08/13/21 23:44*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	160		1.4	0.57	mg/Kg	☼	08/09/21 20:35	08/12/21 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.0		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Pipe 84 (2)
Date Collected: 08/06/21 13:25
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-5
Matrix: Solid
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.43	J	4.7	0.37	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
1,2-Dichloroethane	ND		4.7	0.56	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
1,3,5-Trimethylbenzene	0.78	J	4.7	0.47	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
Toluene	2.5	J	4.7	0.56	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
Xylenes, Total	2.3	J	9.3	1.3	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
Methyl tertiary butyl ether	ND		4.7	0.47	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
Benzene	8.6		4.7	0.47	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
Naphthalene	3.2	J	4.7	1.9	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
1,2,4-Trimethylbenzene	0.77	J	4.7	0.47	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
Isopropylbenzene	ND		4.7	0.37	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1
1,2-Dibromoethane	ND		4.7	0.37	ug/Kg	☼	08/10/21 10:02	08/11/21 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*54 - 135*	*08/10/21 10:02*	*08/11/21 17:11*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/10/21 10:02*	*08/11/21 17:11*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/10/21 10:02*	*08/11/21 17:11*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/10/21 10:02*	*08/11/21 17:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	1500		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1
Benzo[a]anthracene	3400		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1
Benzo[a]pyrene	2600		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1
Benzo[b]fluoranthene	3100		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1
Benzo[g,h,i]perylene	1600		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1
Chrysene	2800		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1
Fluorene	610		18	3.6	ug/Kg	☼	08/10/21 17:56	08/11/21 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/10/21 17:56*	*08/11/21 14:56*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/10/21 17:56*	*08/11/21 14:56*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/10/21 17:56*	*08/11/21 14:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	4800		180	43	ug/Kg	☼	08/10/21 17:56	08/11/21 23:58	10
Pyrene	5500		180	36	ug/Kg	☼	08/10/21 17:56	08/11/21 23:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/10/21 17:56*	*08/11/21 23:58*	*10*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/10/21 17:56*	*08/11/21 23:58*	*10*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*	*08/10/21 17:56*	*08/11/21 23:58*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	51		1.5	0.59	mg/Kg	☼	08/10/21 04:11	08/12/21 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: UNK-ST-S (3)

Lab Sample ID: 410-50503-6

Date Collected: 08/06/21 13:45
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 63.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**0.85**	**J**	7.9	0.63	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
1,2-Dichloroethane	ND		7.9	0.94	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
1,3,5-Trimethylbenzene	**6.6**	**J**	7.9	0.79	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
Toluene	**2.8**	**J**	7.9	0.94	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
Xylenes, Total	**7.2**	**J**	16	2.2	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
Methyl tertiary butyl ether	**1.8**	**J**	7.9	0.79	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
Benzene	**1.8**	**J**	7.9	0.79	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
Naphthalene	**3.3**	**J**	7.9	3.1	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
1,2,4-Trimethylbenzene	**12**		7.9	0.79	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
Isopropylbenzene	ND		7.9	0.63	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1
1,2-Dibromoethane	ND		7.9	0.63	ug/Kg	☼	08/10/21 10:02	08/11/21 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/10/21 10:02*	*08/11/21 16:02*	*1*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*	*08/10/21 10:02*	*08/11/21 16:02*	*1*
Dibromofluoromethane (Surr)	*17*	*S1-*	*50 - 141*	*08/10/21 10:02*	*08/11/21 16:02*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/10/21 10:02*	*08/11/21 16:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**24**	**J**	26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Benzo[a]anthracene	**25**	**J**	26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Benzo[a]pyrene	**15**	**J**	26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Benzo[b]fluoranthene	**23**	**J**	26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Benzo[g,h,i]perylene	ND		26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Chrysene	**22**	**J**	26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Fluorene	ND		26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Phenanthrene	**200**		26	6.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1
Pyrene	**98**		26	5.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*39 - 100*	*08/10/21 17:56*	*08/11/21 15:19*	*1*
Nitrobenzene-d5 (Surr)	*44*		*32 - 97*	*08/10/21 17:56*	*08/11/21 15:19*	*1*
p-Terphenyl-d14 (Surr)	*75*		*45 - 108*	*08/10/21 17:56*	*08/11/21 15:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**39**		2.2	0.87	mg/Kg	☼	08/10/21 04:11	08/12/21 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**36.4**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: UNK-ST-N (3)

Lab Sample ID: 410-50503-7

Date Collected: 08/06/21 14:00
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 78.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**310**	**J**	430	34	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
1,2-Dichloroethane	ND		430	51	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50

Client Sample ID: UNK-ST-N (3)
Date Collected: 08/06/21 14:00
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-7
Matrix: Solid
Percent Solids: 78.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1100		430	43	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
Toluene	740		430	51	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
Xylenes, Total	2400		860	120	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
Methyl tertiary butyl ether	ND		430	43	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
Benzene	560		430	43	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
Naphthalene	3400		430	170	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
1,2,4-Trimethylbenzene	2800		430	43	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
Isopropylbenzene	120	J	430	34	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50
1,2-Dibromoethane	ND		430	34	ug/Kg	☼	08/10/21 10:02	08/12/21 15:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*71*		*54 - 135*	*08/10/21 10:02*	*08/12/21 15:51*	*50*
4-Bromofluorobenzene (Surr)	*64*		*50 - 131*	*08/10/21 10:02*	*08/12/21 15:51*	*50*
Dibromofluoromethane (Surr)	*19*	*S1-*	*50 - 141*	*08/10/21 10:02*	*08/12/21 15:51*	*50*
Toluene-d8 (Surr)	*66*		*52 - 141*	*08/10/21 10:02*	*08/12/21 15:51*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	2700		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:42	1
Fluorene	3800		21	4.2	ug/Kg	☼	08/10/21 17:56	08/11/21 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*08/10/21 17:56*	*08/11/21 15:42*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/10/21 17:56*	*08/11/21 15:42*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*08/10/21 17:56*	*08/11/21 15:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	11000		210	42	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10
Benzo[a]anthracene	8700		210	42	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10
Benzo[a]pyrene	5300		210	42	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10
Benzo[b]fluoranthene	6800		210	42	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10
Chrysene	8000		210	42	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10
Phenanthrene	29000		210	51	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10
Pyrene	15000		210	42	ug/Kg	☼	08/10/21 17:56	08/12/21 00:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/10/21 17:56*	*08/12/21 00:20*	*10*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/10/21 17:56*	*08/12/21 00:20*	*10*
p-Terphenyl-d14 (Surr)	*91*		*45 - 108*	*08/10/21 17:56*	*08/12/21 00:20*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	65		1.6	0.64	mg/Kg	☼	08/10/21 04:11	08/12/21 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.7		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Pipe 71 (2)

Lab Sample ID: 410-50503-8

Date Collected: 08/09/21 11:30
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 62.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**350**	**J**	490	39	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
1,2-Dichloroethane	ND		490	59	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
1,3,5-Trimethylbenzene	**970**		490	49	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
Toluene	**170**	**J**	490	59	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
Xylenes, Total	**1200**		990	140	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
Methyl tertiary butyl ether	ND		490	49	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
Benzene	ND		490	49	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
Naphthalene	ND		490	200	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
1,2,4-Trimethylbenzene	**1900**		490	49	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
Isopropylbenzene	**580**		490	39	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50
1,2-Dibromoethane	ND		490	39	ug/Kg	☼	08/10/21 10:02	08/12/21 16:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*70*		*54 - 135*	*08/10/21 10:02*	*08/12/21 16:12*	*50*
4-Bromofluorobenzene (Surr)	*61*		*50 - 131*	*08/10/21 10:02*	*08/12/21 16:12*	*50*
Dibromofluoromethane (Surr)	*63*		*50 - 141*	*08/10/21 10:02*	*08/12/21 16:12*	*50*
Toluene-d8 (Surr)	*60*		*52 - 141*	*08/10/21 10:02*	*08/12/21 16:12*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Benzo[a]anthracene	**89**		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Benzo[a]pyrene	**75**		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Benzo[b]fluoranthene	**92**		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Benzo[g,h,i]perylene	**86**		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Chrysene	**130**		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Fluorene	**730**	**FL**	27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Phenanthrene	**680**	**FL**	27	6.4	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1
Pyrene	**970**		27	5.3	ug/Kg	☼	08/10/21 17:56	08/11/21 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*39 - 100*	*08/10/21 17:56*	*08/11/21 16:04*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*08/10/21 17:56*	*08/11/21 16:04*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*	*08/10/21 17:56*	*08/11/21 16:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**130**		2.3	0.93	mg/Kg	☼	08/10/21 04:11	08/12/21 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**37.9**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Pipe 72 (2)

Lab Sample ID: 410-50503-9

Date Collected: 08/09/21 11:55
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 74.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		370	29	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
1,2-Dichloroethane	ND		370	44	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50

Client Sample ID: Pipe 72 (2)

Lab Sample ID: 410-50503-9

Date Collected: 08/09/21 11:55
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 74.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	88	J	370	37	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
Toluene	230	J	370	44	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
Xylenes, Total	330	J	730	100	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
Methyl tertiary butyl ether	ND		370	37	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
Benzene	49	J	370	37	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
Naphthalene	ND		370	150	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
1,2,4-Trimethylbenzene	180	J	370	37	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
Isopropylbenzene	ND		370	29	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50
1,2-Dibromoethane	ND		370	29	ug/Kg	☼	08/10/21 10:02	08/12/21 16:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*69*		*54 - 135*	*08/10/21 10:02*	*08/12/21 16:33*	*50*
4-Bromofluorobenzene (Surr)	*62*		*50 - 131*	*08/10/21 10:02*	*08/12/21 16:33*	*50*
Dibromofluoromethane (Surr)	*64*		*50 - 141*	*08/10/21 10:02*	*08/12/21 16:33*	*50*
Toluene-d8 (Surr)	*63*		*52 - 141*	*08/10/21 10:02*	*08/12/21 16:33*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	38		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Benzo[a]anthracene	150		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Benzo[a]pyrene	160		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Benzo[b]fluoranthene	190		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Benzo[g,h,i]perylene	130		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Chrysene	150		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Fluorene	14	J	22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Phenanthrene	110		22	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1
Pyrene	220		22	4.5	ug/Kg	☼	08/11/21 09:56	08/12/21 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/11/21 09:56*	*08/12/21 19:55*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/11/21 09:56*	*08/12/21 19:55*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/11/21 09:56*	*08/12/21 19:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	160		1.8	0.72	mg/Kg	☼	08/10/21 04:11	08/12/21 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.0		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Pipe 70 (2)

Lab Sample ID: 410-50503-10

Date Collected: 08/09/21 12:15
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 62.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	80	J	520	41	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
1,2-Dichloroethane	ND		520	62	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
1,3,5-Trimethylbenzene	1100		520	52	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
Toluene	320	J	520	62	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50

Client Sample ID: Pipe 70 (2)

Lab Sample ID: 410-50503-10

Date Collected: 08/09/21 12:15
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 62.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**590**	**J**	1000	140	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
Methyl tertiary butyl ether	ND		520	52	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
Benzene	ND		520	52	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
Naphthalene	ND		520	210	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
1,2,4-Trimethylbenzene	**1500**		520	52	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
Isopropylbenzene	ND		520	41	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50
1,2-Dibromoethane	ND		520	41	ug/Kg	☼	08/10/21 10:02	08/12/21 16:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*68*		*54 - 135*	*08/10/21 10:02*	*08/12/21 16:54*	*50*
4-Bromofluorobenzene (Surr)	*61*		*50 - 131*	*08/10/21 10:02*	*08/12/21 16:54*	*50*
Dibromofluoromethane (Surr)	*61*		*50 - 141*	*08/10/21 10:02*	*08/12/21 16:54*	*50*
Toluene-d8 (Surr)	*61*		*52 - 141*	*08/10/21 10:02*	*08/12/21 16:54*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Benzo[a]anthracene	**46**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Benzo[a]pyrene	**56**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Benzo[b]fluoranthene	**69**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Benzo[g,h,i]perylene	**58**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Chrysene	**76**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Fluorene	**590**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Phenanthrene	**760**		27	6.4	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1
Pyrene	**470**		27	5.3	ug/Kg	☼	08/11/21 09:56	08/12/21 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*39 - 100*	*08/11/21 09:56*	*08/12/21 20:18*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*08/11/21 09:56*	*08/12/21 20:18*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*08/11/21 09:56*	*08/12/21 20:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**750**		2.3	0.92	mg/Kg	☼	08/10/21 04:11	08/12/21 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**37.7**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Dup-4

Lab Sample ID: 410-50503-11

Date Collected: 08/09/21 00:00
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 68.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**100**	**J**	470	37	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
1,2-Dichloroethane	ND		470	56	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
1,3,5-Trimethylbenzene	**1300**		470	47	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
Toluene	**450**	**J**	470	56	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
Xylenes, Total	**770**	**J**	930	130	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
Methyl tertiary butyl ether	ND		470	47	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50

Client Sample ID: Dup-4

Lab Sample ID: 410-50503-11

Date Collected: 08/09/21 00:00
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 68.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**68**	**J**	470	47	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
Naphthalene	ND		470	190	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
1,2,4-Trimethylbenzene	**2100**		470	47	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
Isopropylbenzene	**41**	**J**	470	37	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50
1,2-Dibromoethane	ND		470	37	ug/Kg	☼	08/10/21 10:02	08/12/21 17:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*66*		*54 - 135*	*08/10/21 10:02*	*08/12/21 17:14*	*50*
4-Bromofluorobenzene (Surr)	*61*		*50 - 131*	*08/10/21 10:02*	*08/12/21 17:14*	*50*
Dibromofluoromethane (Surr)	*55*		*50 - 141*	*08/10/21 10:02*	*08/12/21 17:14*	*50*
Toluene-d8 (Surr)	*60*		*52 - 141*	*08/10/21 10:02*	*08/12/21 17:14*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Benzo[a]anthracene	**69**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Benzo[a]pyrene	**47**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Benzo[b]fluoranthene	**79**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Benzo[g,h,i]perylene	**54**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Chrysene	**150**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Fluorene	**1200**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Phenanthrene	**1900**		24	5.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1
Pyrene	**780**		24	4.8	ug/Kg	☼	08/11/21 09:56	08/13/21 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*39 - 100*	*08/11/21 09:56*	*08/13/21 00:23*	*1*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*	*08/11/21 09:56*	*08/13/21 00:23*	*1*
p-Terphenyl-d14 (Surr)	*73*		*45 - 108*	*08/11/21 09:56*	*08/13/21 00:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**210**		1.6	0.64	mg/Kg	☼	08/10/21 04:11	08/12/21 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.5**		1.0	1.0	%			08/09/21 22:09	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-50503-12

Date Collected: 08/09/21 00:00
Matrix: Water
Date Received: 08/09/21 16:02

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/12/21 15:18	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/12/21 15:18	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/12/21 15:18	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/12/21 15:18	1
Toluene	ND		1.0	0.30	ug/L			08/12/21 15:18	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/12/21 15:18	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/12/21 15:18	1
Benzene	ND		1.0	0.30	ug/L			08/12/21 15:18	1

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Client Sample ID: Trip Blank
Date Collected: 08/09/21 00:00
Date Received: 08/09/21 16:02

Lab Sample ID: 410-50503-12
Matrix: Water

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0	1.0	ug/L			08/12/21 15:18	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/12/21 15:18	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/12/21 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/12/21 15:18*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/12/21 15:18*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*08/12/21 15:18*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/12/21 15:18*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-50503-1	Pipe 85 (2)	111	115	100	91
410-50503-2	7551-P4 (3)	113	92	104	97
410-50503-3	Pipe 86 (2)	74	66	73	68
410-50503-4	Pipe 74 (2)	68	61	60	63
410-50503-5	Pipe 84 (2)	109	95	102	97
410-50503-6	UNK-ST-S (3)	111	97	17 S1-	98
410-50503-7	UNK-ST-N (3)	71	64	19 S1-	66
410-50503-8	Pipe 71 (2)	70	61	63	60
410-50503-9	Pipe 72 (2)	69	62	64	63
410-50503-10	Pipe 70 (2)	68	61	61	61
410-50503-11	Dup-4	66	61	55	60
LCS 410-159083/4	Lab Control Sample	101	97	99	100
LCS 410-159518/4	Lab Control Sample	97	87	95	91
LCS 410-160023/4	Lab Control Sample	92	83	93	89
LCSD 410-159083/5	Lab Control Sample Dup	101	97	99	101
LCSD 410-159518/5	Lab Control Sample Dup	99	86	96	90
LCSD 410-160023/5	Lab Control Sample Dup	95	84	95	89
MB 410-159083/7	Method Blank	102	93	101	99
MB 410-159518/7	Method Blank	103	86	98	92
MB 410-160023/7	Method Blank	105	87	99	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-50503-12	Trip Blank	97	103	102	93
LCS 410-159657/4	Lab Control Sample	98	104	99	95
LCSD 410-159657/5	Lab Control Sample Dup	98	101	99	93
MB 410-159657/6	Method Blank	97	103	101	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-50503-1	Pipe 85 (2)	75	66	73

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 410-50503-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)						
410-50503-2	7551-P4 (3)	92	77	93						
410-50503-3	Pipe 86 (2)	74	59	78						
410-50503-3 - DL	Pipe 86 (2)	75	58	80						
410-50503-4	Pipe 74 (2)	77	67	77						
410-50503-4 - DL	Pipe 74 (2)	72	62	77						
410-50503-5	Pipe 84 (2)	82	66	85						
410-50503-5 - DL	Pipe 84 (2)	82	66	88						
410-50503-6	UNK-ST-S (3)	58	44	75						
410-50503-7	UNK-ST-N (3)	86	75	89						
410-50503-7 - DL	UNK-ST-N (3)	89	72	91						
410-50503-8	Pipe 71 (2)	63	79	78						
410-50503-8 MS	Pipe 71 (2)	64	84	83						
410-50503-8 MSD	Pipe 71 (2)	66	86	72						
410-50503-9	Pipe 72 (2)	81	69	85						
410-50503-10	Pipe 70 (2)	66	68	79						
410-50503-11	Dup-4	60	61	73						
LCS 410-158764/2-A	Lab Control Sample	98	79	92						
LCS 410-158969/2-A	Lab Control Sample	72	56	85						
LCS 410-159833/2-A	Lab Control Sample	93	74	92						
MB 410-158764/1-A	Method Blank	91	79	94						
MB 410-158969/1-A	Method Blank	77	58	96						
MB 410-159833/1-A	Method Blank	87	69	90						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-159083/7
Matrix: Solid
Analysis Batch: 159083

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/11/21 14:49	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/11/21 14:49	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/11/21 14:49	1
Toluene	ND		5.0	0.60	ug/Kg			08/11/21 14:49	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/11/21 14:49	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/11/21 14:49	1
Benzene	ND		5.0	0.50	ug/Kg			08/11/21 14:49	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/11/21 14:49	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/11/21 14:49	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/11/21 14:49	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/11/21 14:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*		*08/11/21 14:49*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*		*08/11/21 14:49*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 141*		*08/11/21 14:49*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*		*08/11/21 14:49*	*1*

Lab Sample ID: LCS 410-159083/4
Matrix: Solid
Analysis Batch: 159083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	18.7		ug/Kg		93	78 - 120		
1,2-Dichloroethane			20.0	20.2		ug/Kg		101	71 - 128		
1,3,5-Trimethylbenzene			20.0	18.5		ug/Kg		93	73 - 120		
Toluene			20.0	18.7		ug/Kg		94	80 - 120		
Xylenes, Total			60.0	56.2		ug/Kg		94	75 - 120		
Methyl tertiary butyl ether			20.0	21.0		ug/Kg		105	72 - 120		
Benzene			20.0	19.9		ug/Kg		100	80 - 120		
Naphthalene			20.0	19.0		ug/Kg		95	48 - 130		
1,2,4-Trimethylbenzene			20.0	18.8		ug/Kg		94	73 - 120		
Isopropylbenzene			20.0	18.3		ug/Kg		92	77 - 120		
1,2-Dibromoethane			20.0	20.4		ug/Kg		102	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*100*		*52 - 141*

Lab Sample ID: LCSD 410-159083/5
Matrix: Solid
Analysis Batch: 159083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.7		ug/Kg		94	78 - 120	0	30
1,2-Dichloroethane			20.0	20.2		ug/Kg		101	71 - 128	0	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-159083/5
Matrix: Solid
Analysis Batch: 159083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	18.5		ug/Kg		93	73 - 120	0	30
Toluene			20.0	18.7		ug/Kg		94	80 - 120	0	30
Xylenes, Total			60.0	56.6		ug/Kg		94	75 - 120	1	30
Methyl tertiary butyl ether			20.0	20.9		ug/Kg		105	72 - 120	0	30
Benzene			20.0	19.7		ug/Kg		98	80 - 120	1	30
Naphthalene			20.0	18.7		ug/Kg		94	48 - 130	2	30
1,2,4-Trimethylbenzene			20.0	18.8		ug/Kg		94	73 - 120	0	30
Isopropylbenzene			20.0	18.5		ug/Kg		92	77 - 120	1	30
1,2-Dibromoethane			20.0	20.2		ug/Kg		101	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: MB 410-159518/7
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/12/21 11:12	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/12/21 11:12	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/12/21 11:12	50
Toluene	ND		250	30	ug/Kg			08/12/21 11:12	50
Xylenes, Total	ND		500	70	ug/Kg			08/12/21 11:12	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/12/21 11:12	50
Benzene	ND		250	25	ug/Kg			08/12/21 11:12	50
Naphthalene	ND		250	100	ug/Kg			08/12/21 11:12	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/12/21 11:12	50
Isopropylbenzene	ND		250	20	ug/Kg			08/12/21 11:12	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/12/21 11:12	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*		*08/12/21 11:12*	*50*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*		*08/12/21 11:12*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*08/12/21 11:12*	*50*
Toluene-d8 (Surr)	*92*		*52 - 141*		*08/12/21 11:12*	*50*

Lab Sample ID: LCS 410-159518/4
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	958		ug/Kg		96	78 - 120
1,2-Dichloroethane			1000	935		ug/Kg		93	71 - 128
1,3,5-Trimethylbenzene			1000	875		ug/Kg		87	73 - 120
Toluene			1000	969		ug/Kg		97	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-159518/4
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			3000	2950		ug/Kg		98	75 - 120		
Methyl tertiary butyl ether			1000	960		ug/Kg		96	72 - 120		
Benzene			1000	1010		ug/Kg		101	80 - 120		
Naphthalene			1000	919		ug/Kg		92	48 - 130		
1,2,4-Trimethylbenzene			1000	874		ug/Kg		87	73 - 120		
Isopropylbenzene			1000	991		ug/Kg		99	77 - 120		
1,2-Dibromoethane			1000	979		ug/Kg		98	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*91*		*52 - 141*

Lab Sample ID: LCSD 410-159518/5
Matrix: Solid
Analysis Batch: 159518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	941		ug/Kg		94	78 - 120	2	30
1,2-Dichloroethane			1000	950		ug/Kg		95	71 - 128	2	30
1,3,5-Trimethylbenzene			1000	873		ug/Kg		87	73 - 120	0	30
Toluene			1000	961		ug/Kg		96	80 - 120	1	30
Xylenes, Total			3000	2910		ug/Kg		97	75 - 120	1	30
Methyl tertiary butyl ether			1000	980		ug/Kg		98	72 - 120	2	30
Benzene			1000	1000		ug/Kg		100	80 - 120	1	30
Naphthalene			1000	924		ug/Kg		92	48 - 130	1	30
1,2,4-Trimethylbenzene			1000	866		ug/Kg		87	73 - 120	1	30
Isopropylbenzene			1000	981		ug/Kg		98	77 - 120	1	30
1,2-Dibromoethane			1000	970		ug/Kg		97	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*
Dibromofluoromethane (Surr)	*96*		*50 - 141*
Toluene-d8 (Surr)	*90*		*52 - 141*

Lab Sample ID: MB 410-160023/7
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/13/21 10:30	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/13/21 10:30	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/13/21 10:30	50
Toluene	ND		250	30	ug/Kg			08/13/21 10:30	50
Xylenes, Total	ND		500	70	ug/Kg			08/13/21 10:30	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/13/21 10:30	50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-160023/7
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		250	25	ug/Kg			08/13/21 10:30	50
Naphthalene	ND		250	100	ug/Kg			08/13/21 10:30	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/13/21 10:30	50
Isopropylbenzene	ND		250	20	ug/Kg			08/13/21 10:30	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/13/21 10:30	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*		*08/13/21 10:30*	*50*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*		*08/13/21 10:30*	*50*
Dibromofluoromethane (Surr)	*99*		*50 - 141*		*08/13/21 10:30*	*50*
Toluene-d8 (Surr)	*93*		*52 - 141*		*08/13/21 10:30*	*50*

Lab Sample ID: LCS 410-160023/4
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	930		ug/Kg		93	78 - 120		
1,2-Dichloroethane			1000	902		ug/Kg		90	71 - 128		
1,3,5-Trimethylbenzene			1000	870		ug/Kg		87	73 - 120		
Toluene			1000	941		ug/Kg		94	80 - 120		
Xylenes, Total			3000	2890		ug/Kg		96	75 - 120		
Methyl tertiary butyl ether			1000	949		ug/Kg		95	72 - 120		
Benzene			1000	974		ug/Kg		97	80 - 120		
Naphthalene			1000	908		ug/Kg		91	48 - 130		
1,2,4-Trimethylbenzene			1000	861		ug/Kg		86	73 - 120		
Isopropylbenzene			1000	966		ug/Kg		97	77 - 120		
1,2-Dibromoethane			1000	957		ug/Kg		96	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*54 - 135*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*
Dibromofluoromethane (Surr)	*93*		*50 - 141*
Toluene-d8 (Surr)	*89*		*52 - 141*

Lab Sample ID: LCSD 410-160023/5
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	922		ug/Kg		92	78 - 120	1	30
1,2-Dichloroethane			1000	919		ug/Kg		92	71 - 128	2	30
1,3,5-Trimethylbenzene			1000	851		ug/Kg		85	73 - 120	2	30
Toluene			1000	950		ug/Kg		95	80 - 120	1	30
Xylenes, Total			3000	2860		ug/Kg		95	75 - 120	1	30
Methyl tertiary butyl ether			1000	952		ug/Kg		95	72 - 120	0	30
Benzene			1000	979		ug/Kg		98	80 - 120	0	30
Naphthalene			1000	913		ug/Kg		91	48 - 130	1	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-160023/5
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			1000	855		ug/Kg		86	73 - 120	1	30
Isopropylbenzene			1000	964		ug/Kg		96	77 - 120	0	30
1,2-Dibromoethane			1000	956		ug/Kg		96	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*54 - 135*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*89*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-159657/6
Matrix: Water
Analysis Batch: 159657

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/12/21 13:37	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/12/21 13:37	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/12/21 13:37	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/12/21 13:37	1
Toluene	ND		1.0	0.30	ug/L			08/12/21 13:37	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/12/21 13:37	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/12/21 13:37	1
Benzene	ND		1.0	0.30	ug/L			08/12/21 13:37	1
Naphthalene	ND		5.0	1.0	ug/L			08/12/21 13:37	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/12/21 13:37	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/12/21 13:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/12/21 13:37*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/12/21 13:37*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*08/12/21 13:37*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/12/21 13:37*	*1*

Lab Sample ID: LCS 410-159657/4
Matrix: Water
Analysis Batch: 159657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	16.6		ug/L		83	77 - 120		
Ethylbenzene			20.0	17.1		ug/L		85	80 - 120		
1,2-Dichloroethane			20.0	17.0		ug/L		85	73 - 124		
1,3,5-Trimethylbenzene			20.0	15.9		ug/L		80	75 - 120		
Toluene			20.0	16.7		ug/L		84	80 - 120		
Xylenes, Total			60.0	50.6		ug/L		84	80 - 120		
Methyl tertiary butyl ether			20.0	17.7		ug/L		89	69 - 122		
Benzene			20.0	18.3		ug/L		91	80 - 120		

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-159657/4
Matrix: Water
Analysis Batch: 159657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			20.0	16.1		ug/L		80	53 - 124		
1,2,4-Trimethylbenzene			20.0	15.9		ug/L		80	75 - 120		
Isopropylbenzene			20.0	16.5		ug/L		83	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 410-159657/5
Matrix: Water
Analysis Batch: 159657

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	16.5		ug/L		83	77 - 120	1	30
Ethylbenzene			20.0	17.2		ug/L		86	80 - 120	1	30
1,2-Dichloroethane			20.0	17.5		ug/L		88	73 - 124	3	30
1,3,5-Trimethylbenzene			20.0	16.4		ug/L		82	75 - 120	3	30
Toluene			20.0	16.7		ug/L		83	80 - 120	0	30
Xylenes, Total			60.0	51.0		ug/L		85	80 - 120	1	30
Methyl tertiary butyl ether			20.0	18.2		ug/L		91	69 - 122	3	30
Benzene			20.0	18.4		ug/L		92	80 - 120	1	30
Naphthalene			20.0	16.5		ug/L		83	53 - 124	3	30
1,2,4-Trimethylbenzene			20.0	16.2		ug/L		81	75 - 120	2	30
Isopropylbenzene			20.0	16.7		ug/L		83	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-158764/1-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Chrysene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Fluorene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1
Phenanthrene	ND		17	4.0	ug/Kg		08/10/21 17:56	08/11/21 08:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-158764/1-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		17	3.3	ug/Kg		08/10/21 17:56	08/11/21 08:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/10/21 17:56*	*08/11/21 08:09*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*08/10/21 17:56*	*08/11/21 08:09*	*1*
p-Terphenyl-d14 (Surr)	*94*		*45 - 108*	*08/10/21 17:56*	*08/11/21 08:09*	*1*

Lab Sample ID: LCS 410-158764/2-A
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1650		ug/Kg		99	75 - 120
Benzo[a]anthracene	1670	1670		ug/Kg		100	73 - 120
Benzo[a]pyrene	1670	1720		ug/Kg		103	80 - 123
Benzo[b]fluoranthene	1670	1510		ug/Kg		91	63 - 120
Benzo[g,h,i]perylene	1670	1710		ug/Kg		103	77 - 120
Chrysene	1670	1630		ug/Kg		98	66 - 120
Fluorene	1670	1800		ug/Kg		108	68 - 120
Phenanthrene	1670	1610		ug/Kg		97	74 - 120
Pyrene	1670	1640		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*98*		*39 - 100*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*

Lab Sample ID: 410-50503-8 MS
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Pipe 71 (2)
Prep Type: Total/NA
Prep Batch: 158764

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	ND		2660	2690		ug/Kg	☼	101	75 - 120
Benzo[a]anthracene	89		2660	2340		ug/Kg	☼	85	73 - 120
Benzo[a]pyrene	75		2660	2600		ug/Kg	☼	95	80 - 123
Benzo[b]fluoranthene	92		2660	2420		ug/Kg	☼	87	63 - 120
Benzo[g,h,i]perylene	86		2660	2610		ug/Kg	☼	95	77 - 120
Chrysene	130		2660	2300		ug/Kg	☼	81	66 - 120
Fluorene	730	FL	2660	2300	FL	ug/Kg	☼	59	68 - 120
Phenanthrene	680	FL	2660	2750		ug/Kg	☼	78	74 - 120
Pyrene	970		2660	2990		ug/Kg	☼	76	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*64*		*39 - 100*
Nitrobenzene-d5 (Surr)	*84*		*32 - 97*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-50503-8 MSD
Matrix: Solid
Analysis Batch: 158947

Client Sample ID: Pipe 71 (2)
Prep Type: Total/NA
Prep Batch: 158764

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	ND		2670	2560		ug/Kg	☼	96	75 - 120	5	30
Benzo[a]anthracene	89		2670	2220		ug/Kg	☼	80	73 - 120	5	30
Benzo[a]pyrene	75		2670	2310		ug/Kg	☼	84	80 - 123	11	30
Benzo[b]fluoranthene	92		2670	2270		ug/Kg	☼	81	63 - 120	7	30
Benzo[g,h,i]perylene	86		2670	2370		ug/Kg	☼	85	77 - 120	10	30
Chrysene	130		2670	2130		ug/Kg	☼	75	66 - 120	8	30
Fluorene	730	FL	2670	2580		ug/Kg	☼	69	68 - 120	11	30
Phenanthrene	680	FL	2670	2640	FL	ug/Kg	☼	73	74 - 120	4	30
Pyrene	970		2670	2840		ug/Kg	☼	70	70 - 120	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*66*		*39 - 100*
Nitrobenzene-d5 (Surr)	*86*		*32 - 97*
p-Terphenyl-d14 (Surr)	*72*		*45 - 108*

Lab Sample ID: MB 410-158969/1-A
Matrix: Solid
Analysis Batch: 159515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Chrysene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Fluorene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Phenanthrene	ND		17	4.0	ug/Kg		08/11/21 09:56	08/12/21 10:00	1
Pyrene	ND		17	3.3	ug/Kg		08/11/21 09:56	08/12/21 10:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*	*08/11/21 09:56*	*08/12/21 10:00*	*1*
Nitrobenzene-d5 (Surr)	*58*		*32 - 97*	*08/11/21 09:56*	*08/12/21 10:00*	*1*
p-Terphenyl-d14 (Surr)	*96*		*45 - 108*	*08/11/21 09:56*	*08/12/21 10:00*	*1*

Lab Sample ID: LCS 410-158969/2-A
Matrix: Solid
Analysis Batch: 159515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1310		ug/Kg		78	75 - 120
Benzo[a]anthracene	1670	1310		ug/Kg		78	73 - 120
Benzo[a]pyrene	1670	1340		ug/Kg		80	80 - 123
Benzo[b]fluoranthene	1670	1270		ug/Kg		76	63 - 120
Benzo[g,h,i]perylene	1670	1420		ug/Kg		85	77 - 120
Chrysene	1670	1310		ug/Kg		79	66 - 120
Fluorene	1670	1240		ug/Kg		74	68 - 120
Phenanthrene	1670	1330		ug/Kg		80	74 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-158969/2-A
Matrix: Solid
Analysis Batch: 159515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	1670	1230		ug/Kg		74	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*
Nitrobenzene-d5 (Surr)	*56*		*32 - 97*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*

Lab Sample ID: MB 410-159833/1-A
Matrix: Solid
Analysis Batch: 160160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Chrysene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Fluorene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Phenanthrene	ND		17	4.0	ug/Kg		08/12/21 18:24	08/13/21 11:50	1
Pyrene	ND		17	3.3	ug/Kg		08/12/21 18:24	08/13/21 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*	*08/12/21 18:24*	*08/13/21 11:50*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/12/21 18:24*	*08/13/21 11:50*	*1*
p-Terphenyl-d14 (Surr)	*90*		*45 - 108*	*08/12/21 18:24*	*08/13/21 11:50*	*1*

Lab Sample ID: LCS 410-159833/2-A
Matrix: Solid
Analysis Batch: 160160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1560		ug/Kg		94	75 - 120
Benzo[a]anthracene	1670	1730		ug/Kg		104	73 - 120
Benzo[a]pyrene	1670	1610		ug/Kg		97	80 - 123
Benzo[b]fluoranthene	1670	1370		ug/Kg		82	63 - 120
Benzo[g,h,i]perylene	1670	1760		ug/Kg		106	77 - 120
Chrysene	1670	1750		ug/Kg		105	66 - 120
Fluorene	1670	1710		ug/Kg		102	68 - 120
Phenanthrene	1670	1530		ug/Kg		92	74 - 120
Pyrene	1670	1560		ug/Kg		94	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*93*		*39 - 100*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-158390/1-A
Matrix: Solid
Analysis Batch: 159808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/09/21 20:35	08/12/21 12:59	1

Lab Sample ID: LCS 410-158390/2-A
Matrix: Solid
Analysis Batch: 159808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158390

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			5.00	5.18		mg/Kg		104	80 - 120		

Lab Sample ID: LCSD 410-158390/3-A
Matrix: Solid
Analysis Batch: 159808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 158390

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			5.00	5.39		mg/Kg		108	80 - 120	4	20

GC/MS VOA

Prep Batch: 158571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-2	7551-P4 (3)	Total/NA	Solid	5035	
410-50503-5	Pipe 84 (2)	Total/NA	Solid	5035	
410-50503-6 - RA	UNK-ST-S (3)	Total/NA	Solid	5035	
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	5035	

Prep Batch: 158572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	5035	
410-50503-3	Pipe 86 (2)	Total/NA	Solid	5035	
410-50503-4	Pipe 74 (2)	Total/NA	Solid	5035	
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	5035	
410-50503-7 - RA	UNK-ST-N (3)	Total/NA	Solid	5035	
410-50503-8	Pipe 71 (2)	Total/NA	Solid	5035	
410-50503-9	Pipe 72 (2)	Total/NA	Solid	5035	
410-50503-10	Pipe 70 (2)	Total/NA	Solid	5035	
410-50503-11	Dup-4	Total/NA	Solid	5035	

Analysis Batch: 159083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-2	7551-P4 (3)	Total/NA	Solid	8260C	158571
410-50503-5	Pipe 84 (2)	Total/NA	Solid	8260C	158571
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	8260C	158571
MB 410-159083/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159083/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159083/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 159518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	8260C	158572
410-50503-3	Pipe 86 (2)	Total/NA	Solid	8260C	158572
410-50503-4	Pipe 74 (2)	Total/NA	Solid	8260C	158572
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	8260C	158572
410-50503-8	Pipe 71 (2)	Total/NA	Solid	8260C	158572
410-50503-9	Pipe 72 (2)	Total/NA	Solid	8260C	158572
410-50503-10	Pipe 70 (2)	Total/NA	Solid	8260C	158572
410-50503-11	Dup-4	Total/NA	Solid	8260C	158572
MB 410-159518/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159518/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159518/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 159582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-6 - RA	UNK-ST-S (3)	Total/NA	Solid	8260C	158571
MB 410-159582/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159582/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159582/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 159657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-12	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-159657/6	Method Blank	Total/NA	Water	8260C/UST	

GC/MS VOA (Continued)

Analysis Batch: 159657 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-159657/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-159657/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Analysis Batch: 160023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-7 - RA	UNK-ST-N (3)	Total/NA	Solid	8260C	158572
MB 410-160023/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-160023/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160023/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 158764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	3546	
410-50503-2	7551-P4 (3)	Total/NA	Solid	3546	
410-50503-3 - DL	Pipe 86 (2)	Total/NA	Solid	3546	
410-50503-3	Pipe 86 (2)	Total/NA	Solid	3546	
410-50503-5	Pipe 84 (2)	Total/NA	Solid	3546	
410-50503-5 - DL	Pipe 84 (2)	Total/NA	Solid	3546	
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	3546	
410-50503-7 - DL	UNK-ST-N (3)	Total/NA	Solid	3546	
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	3546	
410-50503-8	Pipe 71 (2)	Total/NA	Solid	3546	
MB 410-158764/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158764/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-50503-8 MS	Pipe 71 (2)	Total/NA	Solid	3546	
410-50503-8 MSD	Pipe 71 (2)	Total/NA	Solid	3546	

Analysis Batch: 158947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	8270D	158764
410-50503-2	7551-P4 (3)	Total/NA	Solid	8270D	158764
410-50503-3	Pipe 86 (2)	Total/NA	Solid	8270D	158764
410-50503-5	Pipe 84 (2)	Total/NA	Solid	8270D	158764
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	8270D	158764
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	8270D	158764
410-50503-8	Pipe 71 (2)	Total/NA	Solid	8270D	158764
MB 410-158764/1-A	Method Blank	Total/NA	Solid	8270D	158764
LCS 410-158764/2-A	Lab Control Sample	Total/NA	Solid	8270D	158764
410-50503-8 MS	Pipe 71 (2)	Total/NA	Solid	8270D	158764
410-50503-8 MSD	Pipe 71 (2)	Total/NA	Solid	8270D	158764

Prep Batch: 158969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-9	Pipe 72 (2)	Total/NA	Solid	3546	
410-50503-10	Pipe 70 (2)	Total/NA	Solid	3546	
410-50503-11	Dup-4	Total/NA	Solid	3546	
MB 410-158969/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-158969/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC/MS Semi VOA

Analysis Batch: 159422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-3 - DL	Pipe 86 (2)	Total/NA	Solid	8270D	158764
410-50503-5 - DL	Pipe 84 (2)	Total/NA	Solid	8270D	158764
410-50503-7 - DL	UNK-ST-N (3)	Total/NA	Solid	8270D	158764

Analysis Batch: 159515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-158969/1-A	Method Blank	Total/NA	Solid	8270D	158969
LCS 410-158969/2-A	Lab Control Sample	Total/NA	Solid	8270D	158969

Analysis Batch: 159578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-9	Pipe 72 (2)	Total/NA	Solid	8270D	158969
410-50503-10	Pipe 70 (2)	Total/NA	Solid	8270D	158969

Prep Batch: 159833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-4 - DL	Pipe 74 (2)	Total/NA	Solid	3546	
410-50503-4	Pipe 74 (2)	Total/NA	Solid	3546	
MB 410-159833/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-159833/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 159966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-11	Dup-4	Total/NA	Solid	8270D	158969

Analysis Batch: 160160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-4	Pipe 74 (2)	Total/NA	Solid	8270D	159833
MB 410-159833/1-A	Method Blank	Total/NA	Solid	8270D	159833
LCS 410-159833/2-A	Lab Control Sample	Total/NA	Solid	8270D	159833

Analysis Batch: 160448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-4 - DL	Pipe 74 (2)	Total/NA	Solid	8270D	159833

Metals

Prep Batch: 158390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	3050B	
410-50503-2	7551-P4 (3)	Total/NA	Solid	3050B	
410-50503-3	Pipe 86 (2)	Total/NA	Solid	3050B	
410-50503-4	Pipe 74 (2)	Total/NA	Solid	3050B	
410-50503-5	Pipe 84 (2)	Total/NA	Solid	3050B	
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	3050B	
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	3050B	
410-50503-8	Pipe 71 (2)	Total/NA	Solid	3050B	
410-50503-9	Pipe 72 (2)	Total/NA	Solid	3050B	
410-50503-10	Pipe 70 (2)	Total/NA	Solid	3050B	
410-50503-11	Dup-4	Total/NA	Solid	3050B	
MB 410-158390/1-A	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 158390 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-158390/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 410-158390/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

Analysis Batch: 159808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	6010C	158390
410-50503-2	7551-P4 (3)	Total/NA	Solid	6010C	158390
410-50503-3	Pipe 86 (2)	Total/NA	Solid	6010C	158390
410-50503-4	Pipe 74 (2)	Total/NA	Solid	6010C	158390
410-50503-5	Pipe 84 (2)	Total/NA	Solid	6010C	158390
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	6010C	158390
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	6010C	158390
410-50503-8	Pipe 71 (2)	Total/NA	Solid	6010C	158390
410-50503-9	Pipe 72 (2)	Total/NA	Solid	6010C	158390
410-50503-10	Pipe 70 (2)	Total/NA	Solid	6010C	158390
410-50503-11	Dup-4	Total/NA	Solid	6010C	158390
MB 410-158390/1-A	Method Blank	Total/NA	Solid	6010C	158390
LCS 410-158390/2-A	Lab Control Sample	Total/NA	Solid	6010C	158390
LCSD 410-158390/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	158390

General Chemistry

Analysis Batch: 158422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50503-1	Pipe 85 (2)	Total/NA	Solid	Moisture	
410-50503-2	7551-P4 (3)	Total/NA	Solid	Moisture	
410-50503-3	Pipe 86 (2)	Total/NA	Solid	Moisture	
410-50503-4	Pipe 74 (2)	Total/NA	Solid	Moisture	
410-50503-5	Pipe 84 (2)	Total/NA	Solid	Moisture	
410-50503-6	UNK-ST-S (3)	Total/NA	Solid	Moisture	
410-50503-7	UNK-ST-N (3)	Total/NA	Solid	Moisture	
410-50503-8	Pipe 71 (2)	Total/NA	Solid	Moisture	
410-50503-9	Pipe 72 (2)	Total/NA	Solid	Moisture	
410-50503-10	Pipe 70 (2)	Total/NA	Solid	Moisture	
410-50503-11	Dup-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Client Sample ID: Pipe 85 (2)

Lab Sample ID: 410-50503-1
Matrix: Solid
Date Collected: 08/06/21 12:45
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 85 (2)

Lab Sample ID: 410-50503-1
Matrix: Solid
Date Collected: 08/06/21 12:45
Date Received: 08/09/21 16:02
Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 09:23	JJT8	ELLE
Total/NA	Analysis	8260C		100	159518	08/12/21 14:49	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 13:25	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/09/21 20:35	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:14	WJM9	ELLE

Client Sample ID: 7551-P4 (3)

Lab Sample ID: 410-50503-2
Matrix: Solid
Date Collected: 08/06/21 12:50
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: 7551-P4 (3)

Lab Sample ID: 410-50503-2
Matrix: Solid
Date Collected: 08/06/21 12:50
Date Received: 08/09/21 16:02
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158571	08/10/21 09:23	JJT8	ELLE
Total/NA	Analysis	8260C		1	159083	08/11/21 16:48	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 13:48	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/09/21 20:35	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:24	WJM9	ELLE

Client Sample ID: Pipe 86 (2)

Lab Sample ID: 410-50503-3
Matrix: Solid
Date Collected: 08/06/21 13:00
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 86 (2)

Lab Sample ID: 410-50503-3

Date Collected: 08/06/21 13:00

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 71.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 09:23	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 15:10	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 14:11	ULM3	ELLE
Total/NA	Prep	3546	DL		158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D	DL	10	159422	08/11/21 23:35	UWHS	ELLE
Total/NA	Prep	3050B			158390	08/09/21 20:35	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:27	WJM9	ELLE

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50503-4

Date Collected: 08/06/21 13:15

Matrix: Solid

Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50503-4

Date Collected: 08/06/21 13:15

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 09:23	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 15:31	USEJ	ELLE
Total/NA	Prep	3546			159833	08/12/21 18:24	QQ3P	ELLE
Total/NA	Analysis	8270D		1	160160	08/13/21 14:27	ULM3	ELLE
Total/NA	Prep	3546	DL		159833	08/12/21 18:24	QQ3P	ELLE
Total/NA	Analysis	8270D	DL	5	160448	08/13/21 23:44	SJ89	ELLE
Total/NA	Prep	3050B			158390	08/09/21 20:35	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:37	WJM9	ELLE

Client Sample ID: Pipe 84 (2)

Lab Sample ID: 410-50503-5

Date Collected: 08/06/21 13:25

Matrix: Solid

Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 84 (2)

Lab Sample ID: 410-50503-5

Date Collected: 08/06/21 13:25

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158571	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		1	159083	08/11/21 17:11	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 14:56	ULM3	ELLE

Client Sample ID: Pipe 84 (2)

Lab Sample ID: 410-50503-5
Date Collected: 08/06/21 13:25
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D	DL	10	159422	08/11/21 23:58	UWHS	ELLE
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:40	WJM9	ELLE

Client Sample ID: UNK-ST-S (3)

Lab Sample ID: 410-50503-6
Date Collected: 08/06/21 13:45
Matrix: Solid
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: UNK-ST-S (3)

Lab Sample ID: 410-50503-6
Date Collected: 08/06/21 13:45
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 63.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158571	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		1	159083	08/11/21 16:02	USEJ	ELLE
Total/NA	Prep	5035	RA		158571	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	159582	08/12/21 13:53	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 15:19	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:43	WJM9	ELLE

Client Sample ID: UNK-ST-N (3)

Lab Sample ID: 410-50503-7
Date Collected: 08/06/21 14:00
Matrix: Solid
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: UNK-ST-N (3)

Lab Sample ID: 410-50503-7
Date Collected: 08/06/21 14:00
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 15:51	USEJ	ELLE
Total/NA	Prep	5035	RA		158572	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C	RA	50	160023	08/13/21 11:20	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 15:42	ULM3	ELLE
Total/NA	Prep	3546	DL		158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D	DL	10	159422	08/12/21 00:20	UWHS	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Client Sample ID: UNK-ST-N (3)

Lab Sample ID: 410-50503-7

Date Collected: 08/06/21 14:00
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:46	WJM9	ELLE

Client Sample ID: Pipe 71 (2)

Lab Sample ID: 410-50503-8

Date Collected: 08/09/21 11:30
Matrix: Solid
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 71 (2)

Lab Sample ID: 410-50503-8

Date Collected: 08/09/21 11:30
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 62.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 16:12	USEJ	ELLE
Total/NA	Prep	3546			158764	08/10/21 17:56	QQ3P	ELLE
Total/NA	Analysis	8270D		1	158947	08/11/21 16:04	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:50	WJM9	ELLE

Client Sample ID: Pipe 72 (2)

Lab Sample ID: 410-50503-9

Date Collected: 08/09/21 11:55
Matrix: Solid
Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 72 (2)

Lab Sample ID: 410-50503-9

Date Collected: 08/09/21 11:55
Matrix: Solid
Date Received: 08/09/21 16:02
Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 16:33	USEJ	ELLE
Total/NA	Prep	3546			158969	08/11/21 09:56	A2VL	ELLE
Total/NA	Analysis	8270D		1	159578	08/12/21 19:55	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:56	WJM9	ELLE

Client Sample ID: Pipe 70 (2)

Lab Sample ID: 410-50503-10

Date Collected: 08/09/21 12:15

Matrix: Solid

Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Pipe 70 (2)

Lab Sample ID: 410-50503-10

Date Collected: 08/09/21 12:15

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 62.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 16:54	USEJ	ELLE
Total/NA	Prep	3546			158969	08/11/21 09:56	A2VL	ELLE
Total/NA	Analysis	8270D		1	159578	08/12/21 20:18	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:59	WJM9	ELLE

Client Sample ID: Dup-4

Lab Sample ID: 410-50503-11

Date Collected: 08/09/21 00:00

Matrix: Solid

Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	158422	08/09/21 22:09	OEL4	ELLE

Client Sample ID: Dup-4

Lab Sample ID: 410-50503-11

Date Collected: 08/09/21 00:00

Matrix: Solid

Date Received: 08/09/21 16:02

Percent Solids: 68.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			158572	08/10/21 10:02	JJT8	ELLE
Total/NA	Analysis	8260C		50	159518	08/12/21 17:14	USEJ	ELLE
Total/NA	Prep	3546			158969	08/11/21 09:56	A2VL	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 00:23	ULM3	ELLE
Total/NA	Prep	3050B			158390	08/10/21 04:11	UAMX	ELLE
Total/NA	Analysis	6010C		1	159808	08/12/21 13:53	WJM9	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-50503-12

Date Collected: 08/09/21 00:00

Matrix: Water

Date Received: 08/09/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	159657	08/12/21 15:18	UKAD	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50503-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-50503-1	Pipe 85 (2)	Solid	08/06/21 12:45	08/09/21 16:02
410-50503-2	7551-P4 (3)	Solid	08/06/21 12:50	08/09/21 16:02
410-50503-3	Pipe 86 (2)	Solid	08/06/21 13:00	08/09/21 16:02
410-50503-4	Pipe 74 (2)	Solid	08/06/21 13:15	08/09/21 16:02
410-50503-5	Pipe 84 (2)	Solid	08/06/21 13:25	08/09/21 16:02
410-50503-6	UNK-ST-S (3)	Solid	08/06/21 13:45	08/09/21 16:02
410-50503-7	UNK-ST-N (3)	Solid	08/06/21 14:00	08/09/21 16:02
410-50503-8	Pipe 71 (2)	Solid	08/09/21 11:30	08/09/21 16:02
410-50503-9	Pipe 72 (2)	Solid	08/09/21 11:55	08/09/21 16:02
410-50503-10	Pipe 70 (2)	Solid	08/09/21 12:15	08/09/21 16:02
410-50503-11	Dup-4	Solid	08/09/21 00:00	08/09/21 16:02
410-50503-12	Trip Blank	Water	08/09/21 00:00	08/09/21 16:02

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-50503 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: IA/SP/ZS/DH	Lab PM: Carter, Amek A	COC No: 410-30583-9562 2
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA / Page: Page 2 of 5
Company: Stantec Consulting Corp.	PWSID:	Analysis Requested	Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: West Chester	TAT Requested (days): 5 day		
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No		
Phone:	PO #: Purchase Order Requested		Other:
Email: mark.schaeffer@stantec.com	WO #:		
Project Name: PBF Logistics	Project #: 41007459		
Site: 51st Street Terminal	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			F	N	A		
Pipe 85 (2)	8/6/21	1215	G	Solid		X	X	X		
7551 - P4 (3)	8/6/21	1250	G	Solid		X	X	X		
Pipe 86 (2)	8/6/21	1300	G	Solid		X	X	X		
Pipe 74 (2)	8/6/21	1315	G	Solid		X	X	X		
Pipe 84 (2)	8/6/21	1325	G	Solid		X	X	X		
UNK-ST-S (3)	8/6/21	1345	G	Solid		X	X	X		
UNK-ST-N (3)	8/6/21	1400	G	Solid		X	X	X		
Pipe 71 (2)	8/9/21	1130	G	Solid		X	X	X		
Pipe 72 (2)	8/9/21	1155	G	Solid		X	X	X (R)		
Pipe 70 (2)	8/9/21	1215	G	Solid		X	X			
DUP-4	8/9/21	—	G	Solid		X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/9/21 1230	Stantec		8/9/21 1230	
2		8/9/21 1536				
3					8/9/21 1612	ECC

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: IA/SP/DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-30583-9562.3
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 3 of 5
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	A		
Trip Blank	8/9/21	—	G	Water					X		
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/9/21 1230	Stantec		8/9/21 1230	
2		8/9/21 1536				
3					8/9/21 18:02	

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-50503-1

Login Number: 50503

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Jeremiah, Cory T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-50672-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/16/2021 3:43:25 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
8/16/2021 3:43:25 PM

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Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-50672-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-50672-1

Receipt
The samples were received on 8/10/2021 4:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6°C and 4.1°C

Receipt Exceptions
The matrix for the following samples did not match the information listed on the Chain-of-Custody (COC): Pipe 67 (2) (410-50672-8), DUP-5 (410-50672-9), Pipe 19 (2) (410-50672-10) and 941-P2 (2) (410-50672-11). The samples matrix is solid, while the COC lists water.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 941-P2 (2) (410-50672-11). The container labels list 941-P2 (3), while the COC lists 941-P2 (2).

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: Pipe 69 (2) (410-50672-1) and Pipe 22 (2) (410-50672-19). Elevated reporting limits (RLs) are provided.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: Pipe 58 (2) (410-50672-4). The sample(s) was re-analyzed and ISTD response was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: Pipe 69 (2) — Lab Sample ID: 410-50672-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	590	J	770	77	ug/Kg	50	☼	8260C	Total/NA
Toluene	210	J	770	93	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	350	J	1500	220	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	650	J	770	77	ug/Kg	50	☼	8260C	Total/NA
Anthracene	44		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	150		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	54		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	95		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	40		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	150		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	13	J	34	6.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	510		34	8.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	540		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Lead	89		2.6	1.0	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 68 (2) — Lab Sample ID: 410-50672-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	5.5	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.9	J	7.3	0.88	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	6.4	J	15	2.0	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.7	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	5.4	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
Anthracene	120		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	360		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	310		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	370		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	210		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	350		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	72		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	460		28	6.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	620		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Lead	240		2.2	0.87	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 57 (2) — Lab Sample ID: 410-50672-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	24	J	31	6.3	ug/Kg	1	☼	8270D	Total/NA
Lead	16		2.4	0.96	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 58 (2) — Lab Sample ID: 410-50672-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	8.9	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5.7	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.7	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	31		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	53		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	16	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	12		1.8	0.72	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: Pipe 59 (2) — Lab Sample ID: 410-50672-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	7.9	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	7.1	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.1	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	9.1	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Lead	25		2.7	1.1	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 56 (2) — Lab Sample ID: 410-50672-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	8.1	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	27		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	32		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	23		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	28		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	29		20	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	40		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	160	F2	1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 54 (2) — Lab Sample ID: 410-50672-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	5.2	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	9.6	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.3	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	10	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	15	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	38		21	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	41		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Lead	35		1.9	0.75	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 67 (2) — Lab Sample ID: 410-50672-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.9	J	7.9	0.94	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.4	J	7.9	0.79	ug/Kg	1	☼	8260C	Total/NA
Anthracene	18	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	36		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	46		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	68		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	58		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	52		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	14	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	120		21	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	63		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	93		1.6	0.66	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP-5 — Lab Sample ID: 410-50672-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	2.0	J	9.6	1.1	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.4	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Toluene	18		9.6	1.1	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-5 (Continued)

Lab Sample ID: 410-50672-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	9.2	J	19	2.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	17		9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2.2	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Anthracene	23		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	52		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	75		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	100		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	87		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	63		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	47		23	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	65		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	78		1.8	0.70	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 19 (2)

Lab Sample ID: 410-50672-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	2.7	J	8.9	1.1	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	4.0	J	8.9	0.89	ug/Kg	1	☼	8260C	Total/NA
Toluene	31		8.9	1.1	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	28		18	2.5	ug/Kg	1	☼	8260C	Total/NA
Benzene	27		8.9	0.89	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	5.3	J	8.9	0.89	ug/Kg	1	☼	8260C	Total/NA
Anthracene	10	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	5.1	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.9	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	6.3	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	7.3	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	5.2	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	58		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	14	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	260		2.0	0.79	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 941-P2 (2)

Lab Sample ID: 410-50672-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	2.7	J	12	1.4	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	3.2	J	12	1.2	ug/Kg	1	☼	8260C	Total/NA
Toluene	40		12	1.4	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	21	J	23	3.3	ug/Kg	1	☼	8260C	Total/NA
Benzene	28		12	1.2	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	5.8	J	12	1.2	ug/Kg	1	☼	8260C	Total/NA
Anthracene	37		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	81		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	120		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	170		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	130		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	100		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	7.4	J	25	5.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	54		25	6.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	97		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Lead	130		2.2	0.89	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: Pipe 18 (2) — Lab Sample ID: 410-50672-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.3	J	10	1.2	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.8	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Benzo[b]fluoranthene	5.7	J	22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	4.5	J	22	4.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	22	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	29		22	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	9.6	J	22	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	120		1.9	0.76	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 23 (2) — Lab Sample ID: 410-50672-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	3.0	J	9.9	1.2	ug/Kg	1	☼	8260C	Total/NA
Toluene	25		9.9	1.2	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	9.5	J	20	2.8	ug/Kg	1	☼	8260C	Total/NA
Benzene	14		9.9	0.99	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.4	J	9.9	0.99	ug/Kg	1	☼	8260C	Total/NA
Anthracene	4.8	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	9.0	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	7.0	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	29		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	20	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	25		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	24		21	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	6.4	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	130		1.9	0.75	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 24 (2) — Lab Sample ID: 410-50672-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	3.1	J	8.5	1.0	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.9	J	8.5	0.85	ug/Kg	1	☼	8260C	Total/NA
Toluene	20		8.5	1.0	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	13	J	17	2.4	ug/Kg	1	☼	8260C	Total/NA
Benzene	8.3	J	8.5	0.85	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	3.3	J	8.5	0.85	ug/Kg	1	☼	8260C	Total/NA
Anthracene	9.9	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	5.3	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	8.5	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	14	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	40		23	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	19	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	210		1.8	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 25 (2) — Lab Sample ID: 410-50672-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	1.6	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Toluene	140		10	1.2	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	24		20	2.8	ug/Kg	1	☼	8260C	Total/NA
Methyl tertiary butyl ether	2.2	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Benzene	32		10	1.0	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 25 (2) (Continued)

Lab Sample ID: 410-50672-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3.7	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Benzo[g,h,i]perylene	8.4	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	21	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	21	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	150		24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	26		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Lead	60		2.0	0.79	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50672-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.4	J	8.2	0.98	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.1	J	8.2	0.82	ug/Kg	1	☼	8260C	Total/NA
Anthracene	19	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	29		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	21		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	39		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	18	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	38		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	76		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	57		21	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	120		1.8	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 20 (2)

Lab Sample ID: 410-50672-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	4.0	J	9.3	1.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.7	J	9.3	0.93	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	9.1	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5.7	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	7.1	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	11	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	10	J	22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	9.8	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	66		2.0	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 21 (2)

Lab Sample ID: 410-50672-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	23	J	24	5.7	ug/Kg	1	☼	8270D	Total/NA
Lead	28		2.0	0.79	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 22 (2)

Lab Sample ID: 410-50672-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	51	J	480	48	ug/Kg	50	☼	8260C	Total/NA
Toluene	61	J	480	58	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	170	J	970	140	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	99	J	480	48	ug/Kg	50	☼	8260C	Total/NA
Anthracene	22		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	35		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	33		22	4.3	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 22 (2) (Continued)

Lab Sample ID: 410-50672-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	41		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	38		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	52		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	11	J	22	4.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	50		22	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	42		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Lead	1100		1.7	0.70	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-50672-20

No Detections.

Client Sample ID: Pipe 69 (2)

Lab Sample ID: 410-50672-1

Date Collected: 08/09/21 13:05

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 48.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		770	62	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
1,2-Dichloroethane	ND		770	93	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
1,3,5-Trimethylbenzene	**590**	**J**	770	77	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
Toluene	**210**	**J**	770	93	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
Xylenes, Total	**350**	**J**	1500	220	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
Methyl tertiary butyl ether	ND		770	77	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
Benzene	ND		770	77	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
Naphthalene	ND		770	310	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
1,2,4-Trimethylbenzene	**650**	**J**	770	77	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
Isopropylbenzene	ND		770	62	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50
1,2-Dibromoethane	ND		770	62	ug/Kg	☼	08/11/21 11:05	08/13/21 15:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*	*08/11/21 11:05*	*08/13/21 15:49*	*50*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/11/21 11:05*	*08/13/21 15:49*	*50*
Dibromofluoromethane (Surr)	*16*	*S1-*	*50 - 141*	*08/11/21 11:05*	*08/13/21 15:49*	*50*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/11/21 11:05*	*08/13/21 15:49*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**44**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Benzo[a]anthracene	**150**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Benzo[a]pyrene	**54**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Benzo[b]fluoranthene	**95**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Benzo[g,h,i]perylene	**40**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Chrysene	**150**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Fluorene	**13**	**J**	34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Phenanthrene	**510**		34	8.0	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1
Pyrene	**540**		34	6.7	ug/Kg	☼	08/12/21 10:21	08/13/21 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*39 - 100*	*08/12/21 10:21*	*08/13/21 01:08*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/12/21 10:21*	*08/13/21 01:08*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*08/12/21 10:21*	*08/13/21 01:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**89**		2.6	1.0	mg/Kg	☼	08/11/21 20:43	08/13/21 21:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**51.1**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 68 (2)

Lab Sample ID: 410-50672-2

Date Collected: 08/09/21 13:15

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 58.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.3	0.59	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
1,2-Dichloroethane	ND		7.3	0.88	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1

Client Sample ID: Pipe 68 (2)

Lab Sample ID: 410-50672-2

Date Collected: 08/09/21 13:15

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 58.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	5.5	J	7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
Toluene	2.9	J	7.3	0.88	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
Xylenes, Total	6.4	J	15	2.0	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
Methyl tertiary butyl ether	ND		7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
Benzene	1.7	J	7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
Naphthalene	ND		7.3	2.9	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
1,2,4-Trimethylbenzene	5.4	J	7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
Isopropylbenzene	ND		7.3	0.59	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1
1,2-Dibromoethane	ND		7.3	0.59	ug/Kg	☼	08/11/21 12:01	08/12/21 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/11/21 12:01*	*08/12/21 16:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*50 - 131*	*08/11/21 12:01*	*08/12/21 16:12*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/11/21 12:01*	*08/12/21 16:12*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*08/11/21 12:01*	*08/12/21 16:12*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	120		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Benzo[a]anthracene	360		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Benzo[a]pyrene	310		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Benzo[b]fluoranthene	370		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Benzo[g,h,i]perylene	210		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Chrysene	350		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Fluorene	72		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Phenanthrene	460		28	6.8	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1
Pyrene	620		28	5.6	ug/Kg	☼	08/12/21 10:21	08/13/21 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*39 - 100*	*08/12/21 10:21*	*08/13/21 01:30*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*08/12/21 10:21*	*08/13/21 01:30*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/12/21 10:21*	*08/13/21 01:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	240		2.2	0.87	mg/Kg	☼	08/11/21 20:43	08/13/21 21:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	41.5		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 57 (2)

Lab Sample ID: 410-50672-3

Date Collected: 08/09/21 13:35

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 53.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		11	0.91	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
1,2-Dichloroethane	ND		11	1.4	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
1,3,5-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
Toluene	ND		11	1.4	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1

Client Sample ID: Pipe 57 (2)

Lab Sample ID: 410-50672-3

Date Collected: 08/09/21 13:35
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 53.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		23	3.2	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
Methyl tertiary butyl ether	ND		11	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
Benzene	ND		11	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
Naphthalene	ND		11	4.5	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
1,2,4-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
Isopropylbenzene	ND		11	0.91	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1
1,2-Dibromoethane	ND		11	0.91	ug/Kg	☼	08/11/21 12:01	08/12/21 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*	*08/11/21 12:01*	*08/12/21 17:21*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*08/11/21 12:01*	*08/12/21 17:21*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/11/21 12:01*	*08/12/21 17:21*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*08/11/21 12:01*	*08/12/21 17:21*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Benzo[a]anthracene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Benzo[a]pyrene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Benzo[b]fluoranthene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Benzo[g,h,i]perylene	**24**	**J**	31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Chrysene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Fluorene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Phenanthrene	ND		31	7.5	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1
Pyrene	ND		31	6.3	ug/Kg	☼	08/12/21 10:21	08/13/21 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/12/21 10:21*	*08/13/21 01:53*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/12/21 10:21*	*08/13/21 01:53*	*1*
p-Terphenyl-d14 (Surr)	*91*		*45 - 108*	*08/12/21 10:21*	*08/13/21 01:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**16**		2.4	0.96	mg/Kg	☼	08/11/21 20:43	08/13/21 22:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**46.9**		1.0	1.0	%			08/11/21 14:37	1

Client Sample ID: Pipe 58 (2)

Lab Sample ID: 410-50672-4

Date Collected: 08/09/21 13:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 75.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.83	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
1,2-Dichloroethane	ND		10	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
1,3,5-Trimethylbenzene	ND	*3	10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
Toluene	ND		10	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
Xylenes, Total	ND		21	2.9	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
Methyl tertiary butyl ether	ND		10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1

Client Sample ID: Pipe 58 (2)

Lab Sample ID: 410-50672-4

Date Collected: 08/09/21 13:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 75.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
Naphthalene	ND	*3	10	4.1	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
1,2,4-Trimethylbenzene	ND	*3	10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
Isopropylbenzene	ND		10	0.83	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1
1,2-Dibromoethane	ND		10	0.83	ug/Kg	☼	08/11/21 12:01	08/12/21 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*08/11/21 12:01*	*08/12/21 17:45*	*1*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/11/21 12:01*	*08/12/21 17:45*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/11/21 12:01*	*08/12/21 17:45*	*1*
Toluene-d8 (Surr)	*105*		*52 - 141*	*08/11/21 12:01*	*08/12/21 17:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Benzo[a]anthracene	**8.9**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Benzo[a]pyrene	**5.7**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Benzo[b]fluoranthene	**14**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Benzo[g,h,i]perylene	**8.7**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Chrysene	**31**		22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Fluorene	ND		22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Phenanthrene	**53**		22	5.3	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1
Pyrene	**16**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/12/21 10:21*	*08/13/21 03:00*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/12/21 10:21*	*08/13/21 03:00*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*	*08/12/21 10:21*	*08/13/21 03:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		1.8	0.72	mg/Kg	☼	08/11/21 20:43	08/13/21 22:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24.7**		1.0	1.0	%			08/11/21 14:37	1

Client Sample ID: Pipe 59 (2)

Lab Sample ID: 410-50672-5

Date Collected: 08/09/21 14:05
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 55.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.5	0.76	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
1,2-Dichloroethane	ND		9.5	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
1,3,5-Trimethylbenzene	ND		9.5	0.95	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
Toluene	ND		9.5	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
Xylenes, Total	ND		19	2.7	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
Methyl tertiary butyl ether	ND		9.5	0.95	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
Benzene	ND		9.5	0.95	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
Naphthalene	ND		9.5	3.8	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1

Client Sample ID: Pipe 59 (2)

Lab Sample ID: 410-50672-5

Date Collected: 08/09/21 14:05
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 55.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		9.5	0.95	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
Isopropylbenzene	ND		9.5	0.76	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1
1,2-Dibromoethane	ND		9.5	0.76	ug/Kg	☼	08/11/21 12:01	08/12/21 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*54 - 135*	*08/11/21 12:01*	*08/12/21 18:08*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/11/21 12:01*	*08/12/21 18:08*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/11/21 12:01*	*08/12/21 18:08*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*08/11/21 12:01*	*08/12/21 18:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**7.9**	**J**	30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Benzo[a]anthracene	**7.1**	**J**	30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Benzo[a]pyrene	**6.1**	**J**	30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Benzo[b]fluoranthene	ND		30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Benzo[g,h,i]perylene	**9.1**	**J**	30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Chrysene	ND		30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Fluorene	ND		30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Phenanthrene	ND		30	7.2	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1
Pyrene	ND		30	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/12/21 10:21*	*08/13/21 03:23*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/12/21 10:21*	*08/13/21 03:23*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*08/12/21 10:21*	*08/13/21 03:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**25**		2.7	1.1	mg/Kg	☼	08/11/21 20:43	08/13/21 21:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**44.2**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 56 (2)

Lab Sample ID: 410-50672-6

Date Collected: 08/09/21 14:20
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 83.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.9	0.71	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
1,2-Dichloroethane	ND		8.9	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
1,3,5-Trimethylbenzene	ND		8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
Toluene	ND		8.9	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
Xylenes, Total	ND		18	2.5	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
Methyl tertiary butyl ether	ND		8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
Benzene	ND		8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
Naphthalene	ND		8.9	3.5	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
1,2,4-Trimethylbenzene	ND		8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1
Isopropylbenzene	ND		8.9	0.71	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1

Client Sample ID: Pipe 56 (2)

Lab Sample ID: 410-50672-6

Date Collected: 08/09/21 14:20
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 83.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		8.9	0.71	ug/Kg	☼	08/11/21 12:01	08/12/21 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/11/21 12:01*	*08/12/21 18:31*	*1*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*	*08/11/21 12:01*	*08/12/21 18:31*	*1*
Dibromofluoromethane (Surr)	*115*		*50 - 141*	*08/11/21 12:01*	*08/12/21 18:31*	*1*
Toluene-d8 (Surr)	*105*		*52 - 141*	*08/11/21 12:01*	*08/12/21 18:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**8.1**	**J**	20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Benzo[a]anthracene	**26**		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Benzo[a]pyrene	**27**		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Benzo[b]fluoranthene	**32**		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Benzo[g,h,i]perylene	**23**		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Chrysene	**28**		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Fluorene	ND		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Phenanthrene	**29**		20	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1
Pyrene	**40**		20	4.0	ug/Kg	☼	08/12/21 10:21	08/13/21 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/12/21 10:21*	*08/13/21 03:45*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/12/21 10:21*	*08/13/21 03:45*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/12/21 10:21*	*08/13/21 03:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**160**	**F2**	1.7	0.69	mg/Kg	☼	08/11/21 20:43	08/13/21 21:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.1**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 54 (2)

Lab Sample ID: 410-50672-7

Date Collected: 08/09/21 14:30
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 77.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.3	0.59	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
1,2-Dichloroethane	ND		7.3	0.88	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
1,3,5-Trimethylbenzene	ND		7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
Toluene	ND		7.3	0.88	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
Xylenes, Total	ND		15	2.1	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
Methyl tertiary butyl ether	ND		7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
Benzene	ND		7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
Naphthalene	ND		7.3	2.9	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
1,2,4-Trimethylbenzene	ND		7.3	0.73	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
Isopropylbenzene	ND		7.3	0.59	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1
1,2-Dibromoethane	ND		7.3	0.59	ug/Kg	☼	08/11/21 12:01	08/12/21 18:54	1

Client Sample ID: Pipe 54 (2)

Lab Sample ID: 410-50672-7

Date Collected: 08/09/21 14:30
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 77.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/11/21 12:01*	*08/12/21 18:54*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/11/21 12:01*	*08/12/21 18:54*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*08/11/21 12:01*	*08/12/21 18:54*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/11/21 12:01*	*08/12/21 18:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**5.2**	**J**	21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Benzo[a]anthracene	**9.6**	**J**	21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Benzo[a]pyrene	**4.3**	**J**	21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Benzo[b]fluoranthene	**10**	**J**	21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Benzo[g,h,i]perylene	ND		21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Chrysene	**15**	**J**	21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Fluorene	ND		21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Phenanthrene	**38**		21	5.2	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1
Pyrene	**41**		21	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/12/21 10:21*	*08/13/21 04:08*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/12/21 10:21*	*08/13/21 04:08*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/12/21 10:21*	*08/13/21 04:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**35**		1.9	0.75	mg/Kg	☼	08/11/21 20:43	08/13/21 21:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.5**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 67 (2)

Lab Sample ID: 410-50672-8

Date Collected: 08/09/21 14:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 80.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.9	0.63	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
1,2-Dichloroethane	ND		7.9	0.94	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
1,3,5-Trimethylbenzene	ND		7.9	0.79	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
Toluene	**1.9**	**J**	7.9	0.94	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
Xylenes, Total	ND		16	2.2	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
Methyl tertiary butyl ether	ND		7.9	0.79	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
Benzene	**2.4**	**J**	7.9	0.79	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
Naphthalene	ND		7.9	3.1	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
1,2,4-Trimethylbenzene	ND		7.9	0.79	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
Isopropylbenzene	ND		7.9	0.63	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1
1,2-Dibromoethane	ND		7.9	0.63	ug/Kg	☼	08/11/21 12:01	08/12/21 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/11/21 12:01*	*08/12/21 19:17*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/11/21 12:01*	*08/12/21 19:17*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*08/11/21 12:01*	*08/12/21 19:17*	*1*

Client Sample ID: Pipe 67 (2)

Lab Sample ID: 410-50672-8

Date Collected: 08/09/21 14:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 80.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/11/21 12:01*	*08/12/21 19:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**18**	**J**	21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Benzo[a]anthracene	**36**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Benzo[a]pyrene	**46**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Benzo[b]fluoranthene	**68**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Benzo[g,h,i]perylene	**58**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Chrysene	**52**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Fluorene	**14**	**J**	21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Phenanthrene	**120**		21	4.9	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1
Pyrene	**63**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 04:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/12/21 10:21*	*08/13/21 04:30*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/12/21 10:21*	*08/13/21 04:30*	*1*
p-Terphenyl-d14 (Surr)	*81*		*45 - 108*	*08/12/21 10:21*	*08/13/21 04:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**93**		1.6	0.66	mg/Kg	☼	08/11/21 20:43	08/13/21 22:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.0**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: DUP-5

Lab Sample ID: 410-50672-9

Date Collected: 08/10/21 00:00
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 72.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	0.77	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
1,2-Dichloroethane	**2.0**	**J**	9.6	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
1,3,5-Trimethylbenzene	**1.4**	**J**	9.6	0.96	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
Toluene	**18**		9.6	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
Xylenes, Total	**9.2**	**J**	19	2.7	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
Methyl tertiary butyl ether	ND		9.6	0.96	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
Benzene	**17**		9.6	0.96	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
Naphthalene	ND		9.6	3.8	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
1,2,4-Trimethylbenzene	**2.2**	**J**	9.6	0.96	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
Isopropylbenzene	ND		9.6	0.77	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1
1,2-Dibromoethane	ND		9.6	0.77	ug/Kg	☼	08/11/21 12:01	08/12/21 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/11/21 12:01*	*08/12/21 14:16*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/11/21 12:01*	*08/12/21 14:16*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*08/11/21 12:01*	*08/12/21 14:16*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/11/21 12:01*	*08/12/21 14:16*	*1*

Client Sample ID: DUP-5

Lab Sample ID: 410-50672-9

Date Collected: 08/10/21 00:00
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 72.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	23		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Benzo[a]anthracene	52		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Benzo[a]pyrene	75		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Benzo[b]fluoranthene	100		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Benzo[g,h,i]perylene	87		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Chrysene	63		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Fluorene	ND		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Phenanthrene	47		23	5.5	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1
Pyrene	65		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/12/21 10:21*	*08/13/21 04:53*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/12/21 10:21*	*08/13/21 04:53*	*1*
p-Terphenyl-d14 (Surr)	*81*		*45 - 108*	*08/12/21 10:21*	*08/13/21 04:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	78		1.8	0.70	mg/Kg	☼	08/11/21 20:43	08/13/21 22:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.4		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 19 (2)

Lab Sample ID: 410-50672-10

Date Collected: 08/10/21 09:05
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 75.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.9	0.71	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
1,2-Dichloroethane	2.7	J	8.9	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
1,3,5-Trimethylbenzene	4.0	J	8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
Toluene	31		8.9	1.1	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
Xylenes, Total	28		18	2.5	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
Methyl tertiary butyl ether	ND		8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
Benzene	27		8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
Naphthalene	ND		8.9	3.6	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
1,2,4-Trimethylbenzene	5.3	J	8.9	0.89	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
Isopropylbenzene	ND		8.9	0.71	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1
1,2-Dibromoethane	ND		8.9	0.71	ug/Kg	☼	08/11/21 12:01	08/12/21 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*08/11/21 12:01*	*08/12/21 19:40*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/11/21 12:01*	*08/12/21 19:40*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/11/21 12:01*	*08/12/21 19:40*	*1*
Toluene-d8 (Surr)	*101*		*52 - 141*	*08/11/21 12:01*	*08/12/21 19:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	10	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Benzo[a]anthracene	5.1	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1

Client Sample ID: Pipe 19 (2)

Lab Sample ID: 410-50672-10

Date Collected: 08/10/21 09:05
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 75.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	4.9	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Benzo[b]fluoranthene	6.3	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Benzo[g,h,i]perylene	7.3	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Chrysene	5.2	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Fluorene	ND		22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Phenanthrene	58		22	5.3	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1
Pyrene	14	J	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/12/21 10:21*	*08/13/21 05:15*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*08/12/21 10:21*	*08/13/21 05:15*	*1*
p-Terphenyl-d14 (Surr)	*81*		*45 - 108*	*08/12/21 10:21*	*08/13/21 05:15*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	260		2.0	0.79	mg/Kg	☼	08/11/21 20:43	08/13/21 21:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.6		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: 941-P2 (2)

Lab Sample ID: 410-50672-11

Date Collected: 08/10/21 09:20
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 66.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		12	0.93	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
1,2-Dichloroethane	2.7	J	12	1.4	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
1,3,5-Trimethylbenzene	3.2	J	12	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
Toluene	40		12	1.4	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
Xylenes, Total	21	J	23	3.3	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
Methyl tertiary butyl ether	ND		12	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
Benzene	28		12	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
Naphthalene	ND		12	4.7	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
1,2,4-Trimethylbenzene	5.8	J	12	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
Isopropylbenzene	ND		12	0.93	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1
1,2-Dibromoethane	ND		12	0.93	ug/Kg	☼	08/11/21 12:01	08/12/21 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*54 - 135*	*08/11/21 12:01*	*08/12/21 14:40*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/11/21 12:01*	*08/12/21 14:40*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*08/11/21 12:01*	*08/12/21 14:40*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/11/21 12:01*	*08/12/21 14:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	37		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Benzo[a]anthracene	81		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Benzo[a]pyrene	120		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Benzo[b]fluoranthene	170		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1

Client Sample ID: 941-P2 (2)

Lab Sample ID: 410-50672-11

Date Collected: 08/10/21 09:20
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 66.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	130		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Chrysene	100		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Fluorene	7.4	J	25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Phenanthrene	54		25	6.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1
Pyrene	97		25	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/12/21 10:21*	*08/13/21 05:38*	*1*
Nitrobenzene-d5 (Surr)	*70*		*32 - 97*	*08/12/21 10:21*	*08/13/21 05:38*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/12/21 10:21*	*08/13/21 05:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	130		2.2	0.89	mg/Kg	☼	08/11/21 20:43	08/13/21 21:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	33.7		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 18 (2)

Lab Sample ID: 410-50672-12

Date Collected: 08/10/21 09:35
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 74.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.81	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
1,2-Dichloroethane	ND		10	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
Toluene	1.3	J	10	1.2	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
Xylenes, Total	ND		20	2.8	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
Methyl tertiary butyl ether	ND		10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
Benzene	2.8	J	10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
Naphthalene	ND		10	4.0	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
1,2,4-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
Isopropylbenzene	ND		10	0.81	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1
1,2-Dibromoethane	ND		10	0.81	ug/Kg	☼	08/11/21 12:01	08/12/21 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/11/21 12:01*	*08/12/21 16:35*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/11/21 12:01*	*08/12/21 16:35*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*08/11/21 12:01*	*08/12/21 16:35*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/11/21 12:01*	*08/12/21 16:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Benzo[a]anthracene	ND		22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Benzo[a]pyrene	ND		22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Benzo[b]fluoranthene	5.7	J	22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Benzo[g,h,i]perylene	4.5	J	22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Chrysene	13	J	22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1

Client Sample ID: Pipe 18 (2)

Lab Sample ID: 410-50672-12

Date Collected: 08/10/21 09:35
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 74.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Phenanthrene	**29**		22	5.4	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1
Pyrene	**9.6**	**J**	22	4.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*39 - 100*	*08/12/21 10:21*	*08/13/21 06:00*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/12/21 10:21*	*08/13/21 06:00*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/12/21 10:21*	*08/13/21 06:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**120**		1.9	0.76	mg/Kg	☼	08/11/21 20:43	08/13/21 21:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.7**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 23 (2)

Lab Sample ID: 410-50672-13

Date Collected: 08/10/21 09:45
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 77.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.9	0.79	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
1,2-Dichloroethane	**3.0**	**J**	9.9	1.2	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
1,3,5-Trimethylbenzene	ND		9.9	0.99	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
Toluene	**25**		9.9	1.2	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
Xylenes, Total	**9.5**	**J**	20	2.8	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
Methyl tertiary butyl ether	ND		9.9	0.99	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
Benzene	**14**		9.9	0.99	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
Naphthalene	ND		9.9	3.9	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
1,2,4-Trimethylbenzene	**1.4**	**J**	9.9	0.99	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
Isopropylbenzene	ND		9.9	0.79	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1
1,2-Dibromoethane	ND		9.9	0.79	ug/Kg	☼	08/11/21 11:19	08/12/21 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/11/21 11:19*	*08/12/21 15:03*	*1*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/11/21 11:19*	*08/12/21 15:03*	*1*
Dibromofluoromethane (Surr)	*112*		*50 - 141*	*08/11/21 11:19*	*08/12/21 15:03*	*1*
Toluene-d8 (Surr)	*109*		*52 - 141*	*08/11/21 11:19*	*08/12/21 15:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**4.8**	**J**	21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Benzo[a]anthracene	**9.0**	**J**	21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Benzo[a]pyrene	**7.0**	**J**	21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Benzo[b]fluoranthene	**29**		21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Benzo[g,h,i]perylene	**20**	**J**	21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Chrysene	**25**		21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1
Phenanthrene	**24**		21	5.1	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1

Client Sample ID: Pipe 23 (2)

Lab Sample ID: 410-50672-13

Date Collected: 08/10/21 09:45
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 77.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	6.4	J	21	4.2	ug/Kg	☼	08/12/21 10:21	08/13/21 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/12/21 10:21*	*08/13/21 06:23*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/12/21 10:21*	*08/13/21 06:23*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*08/12/21 10:21*	*08/13/21 06:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	130		1.9	0.75	mg/Kg	☼	08/11/21 20:43	08/13/21 22:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.2		1.0	1.0	%			08/11/21 14:37	1

Client Sample ID: Pipe 24 (2)

Lab Sample ID: 410-50672-14

Date Collected: 08/10/21 09:55
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 72.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.5	0.68	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
1,2-Dichloroethane	3.1	J	8.5	1.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
1,3,5-Trimethylbenzene	1.9	J	8.5	0.85	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
Toluene	20		8.5	1.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
Xylenes, Total	13	J	17	2.4	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
Methyl tertiary butyl ether	ND		8.5	0.85	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
Benzene	8.3	J	8.5	0.85	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
Naphthalene	ND		8.5	3.4	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
1,2,4-Trimethylbenzene	3.3	J	8.5	0.85	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
Isopropylbenzene	ND		8.5	0.68	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1
1,2-Dibromoethane	ND		8.5	0.68	ug/Kg	☼	08/11/21 11:19	08/12/21 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/11/21 11:19*	*08/12/21 15:26*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/11/21 11:19*	*08/12/21 15:26*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*	*08/11/21 11:19*	*08/12/21 15:26*	*1*
Toluene-d8 (Surr)	*103*		*52 - 141*	*08/11/21 11:19*	*08/12/21 15:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	9.9	J	23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Benzo[a]anthracene	5.3	J	23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Benzo[a]pyrene	ND		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Benzo[b]fluoranthene	ND		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Benzo[g,h,i]perylene	ND		23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Chrysene	8.5	J	23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Fluorene	14	J	23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Phenanthrene	40		23	5.5	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1
Pyrene	19	J	23	4.6	ug/Kg	☼	08/12/21 10:21	08/13/21 06:45	1

Client Sample ID: Pipe 24 (2)

Lab Sample ID: 410-50672-14

Date Collected: 08/10/21 09:55

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 72.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		39 - 100	08/12/21 10:21	08/13/21 06:45	1
Nitrobenzene-d5 (Surr)	56		32 - 97	08/12/21 10:21	08/13/21 06:45	1
p-Terphenyl-d14 (Surr)	78		45 - 108	08/12/21 10:21	08/13/21 06:45	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**210**		1.8	0.74	mg/Kg	☼	08/11/21 20:43	08/13/21 22:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.9**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 25 (2)

Lab Sample ID: 410-50672-15

Date Collected: 08/10/21 10:05

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 69.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.80	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
1,2-Dichloroethane	ND		10	1.2	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
1,3,5-Trimethylbenzene	**1.6**	**J**	10	1.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
Toluene	**140**		10	1.2	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
Xylenes, Total	**24**		20	2.8	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
Methyl tertiary butyl ether	**2.2**	**J**	10	1.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
Benzene	**32**		10	1.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
Naphthalene	ND		10	4.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
1,2,4-Trimethylbenzene	**3.7**	**J**	10	1.0	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
Isopropylbenzene	ND		10	0.80	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1
1,2-Dibromoethane	ND		10	0.80	ug/Kg	☼	08/11/21 11:19	08/12/21 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		54 - 135	08/11/21 11:19	08/12/21 15:49	1
4-Bromofluorobenzene (Surr)	88		50 - 131	08/11/21 11:19	08/12/21 15:49	1
Dibromofluoromethane (Surr)	107		50 - 141	08/11/21 11:19	08/12/21 15:49	1
Toluene-d8 (Surr)	100		52 - 141	08/11/21 11:19	08/12/21 15:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Benzo[a]anthracene	ND		24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Benzo[a]pyrene	ND		24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Benzo[b]fluoranthene	ND		24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Benzo[g,h,i]perylene	**8.4**	**J**	24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Chrysene	**21**	**J**	24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Fluorene	**21**	**J**	24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Phenanthrene	**150**		24	5.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1
Pyrene	**26**		24	4.8	ug/Kg	☼	08/12/21 10:21	08/13/21 07:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		39 - 100	08/12/21 10:21	08/13/21 07:08	1
Nitrobenzene-d5 (Surr)	58		32 - 97	08/12/21 10:21	08/13/21 07:08	1
p-Terphenyl-d14 (Surr)	70		45 - 108	08/12/21 10:21	08/13/21 07:08	1

Client Sample ID: Pipe 25 (2)

Lab Sample ID: 410-50672-15

Date Collected: 08/10/21 10:05

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 69.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**60**		2.0	0.79	mg/Kg	☼	08/11/21 20:43	08/13/21 22:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.6**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50672-16

Date Collected: 08/10/21 10:15

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 80.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.2	0.65	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
1,2-Dichloroethane	ND		8.2	0.98	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
1,3,5-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
Toluene	**1.4**	**J**	8.2	0.98	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
Xylenes, Total	ND		16	2.3	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
Methyl tertiary butyl ether	ND		8.2	0.82	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
Benzene	**1.1**	**J**	8.2	0.82	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
Naphthalene	ND		8.2	3.3	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
1,2,4-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
Isopropylbenzene	ND		8.2	0.65	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1
1,2-Dibromoethane	ND		8.2	0.65	ug/Kg	☼	08/11/21 11:19	08/12/21 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*54 - 135*	*08/11/21 11:19*	*08/12/21 20:03*	*1*
4-Bromofluorobenzene (Surr)	*80*		*50 - 131*	*08/11/21 11:19*	*08/12/21 20:03*	*1*
Dibromofluoromethane (Surr)	*115*		*50 - 141*	*08/11/21 11:19*	*08/12/21 20:03*	*1*
Toluene-d8 (Surr)	*108*		*52 - 141*	*08/11/21 11:19*	*08/12/21 20:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**19**	**J**	21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Benzo[a]anthracene	**29**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Benzo[a]pyrene	**21**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Benzo[b]fluoranthene	**39**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Benzo[g,h,i]perylene	**18**	**J**	21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Chrysene	**38**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Fluorene	ND		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Phenanthrene	**76**		21	5.0	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1
Pyrene	**57**		21	4.1	ug/Kg	☼	08/12/21 10:21	08/13/21 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/12/21 10:21*	*08/13/21 07:30*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/12/21 10:21*	*08/13/21 07:30*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/12/21 10:21*	*08/13/21 07:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**120**		1.8	0.74	mg/Kg	☼	08/11/21 20:43	08/13/21 21:58	1

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50672-16

Date Collected: 08/10/21 10:15
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 80.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.2**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 20 (2)

Lab Sample ID: 410-50672-17

Date Collected: 08/10/21 10:30
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 74.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.3	0.75	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
1,2-Dichloroethane	ND		9.3	1.1	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
1,3,5-Trimethylbenzene	ND		9.3	0.93	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
Toluene	**4.0**	**J**	9.3	1.1	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
Xylenes, Total	ND		19	2.6	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
Methyl tertiary butyl ether	ND		9.3	0.93	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
Benzene	**3.7**	**J**	9.3	0.93	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
Naphthalene	ND		9.3	3.7	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
1,2,4-Trimethylbenzene	ND		9.3	0.93	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
Isopropylbenzene	ND		9.3	0.75	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1
1,2-Dibromoethane	ND		9.3	0.75	ug/Kg	☼	08/11/21 11:19	08/12/21 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/11/21 11:19*	*08/12/21 20:26*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/11/21 11:19*	*08/12/21 20:26*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*08/11/21 11:19*	*08/12/21 20:26*	*1*
Toluene-d8 (Surr)	*100*		*52 - 141*	*08/11/21 11:19*	*08/12/21 20:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Benzo[a]anthracene	**9.1**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Benzo[a]pyrene	**5.7**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Benzo[b]fluoranthene	**14**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Benzo[g,h,i]perylene	**7.1**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Chrysene	**11**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Fluorene	ND		22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Phenanthrene	**10**	**J**	22	5.3	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1
Pyrene	**9.8**	**J**	22	4.4	ug/Kg	☼	08/12/21 10:21	08/13/21 07:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*08/12/21 10:21*	*08/13/21 07:53*	*1*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*	*08/12/21 10:21*	*08/13/21 07:53*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/12/21 10:21*	*08/13/21 07:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**66**		2.0	0.78	mg/Kg	☼	08/11/21 20:43	08/13/21 21:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.1**		1.0	1.0	%			08/11/21 14:37	1

Client Sample ID: Pipe 21 (2)

Lab Sample ID: 410-50672-18

Date Collected: 08/10/21 10:40
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 70.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.9	0.71	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
1,2-Dichloroethane	ND		8.9	1.1	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
1,3,5-Trimethylbenzene	ND		8.9	0.89	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
Toluene	ND		8.9	1.1	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
Xylenes, Total	ND		18	2.5	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
Methyl tertiary butyl ether	ND		8.9	0.89	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
Benzene	ND		8.9	0.89	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
Naphthalene	ND		8.9	3.6	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
1,2,4-Trimethylbenzene	ND		8.9	0.89	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
Isopropylbenzene	ND		8.9	0.71	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1
1,2-Dibromoethane	ND		8.9	0.71	ug/Kg	☼	08/11/21 11:19	08/12/21 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/11/21 11:19*	*08/12/21 16:58*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*08/11/21 11:19*	*08/12/21 16:58*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*08/11/21 11:19*	*08/12/21 16:58*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/11/21 11:19*	*08/12/21 16:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Benzo[a]anthracene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Benzo[a]pyrene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Benzo[b]fluoranthene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Benzo[g,h,i]perylene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Chrysene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Fluorene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Phenanthrene	**23**	**J**	24	5.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1
Pyrene	ND		24	4.7	ug/Kg	☼	08/12/21 10:21	08/13/21 08:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*39 - 100*	*08/12/21 10:21*	*08/13/21 08:15*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/12/21 10:21*	*08/13/21 08:15*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/12/21 10:21*	*08/13/21 08:15*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**28**		2.0	0.79	mg/Kg	☼	08/11/21 20:43	08/13/21 21:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.3**		1.0	1.0	%			08/11/21 16:33	1

Client Sample ID: Pipe 22 (2)

Lab Sample ID: 410-50672-19

Date Collected: 08/10/21 10:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 76.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		480	39	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
1,2-Dichloroethane	ND		480	58	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50

Client Sample ID: Pipe 22 (2)

Date Collected: 08/10/21 10:50
Date Received: 08/10/21 16:48

Lab Sample ID: 410-50672-19

Matrix: Solid
Percent Solids: 76.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	51	J	480	48	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
Toluene	61	J	480	58	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
Xylenes, Total	170	J	970	140	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
Methyl tertiary butyl ether	ND		480	48	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
Benzene	ND		480	48	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
Naphthalene	ND		480	190	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
1,2,4-Trimethylbenzene	99	J	480	48	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
Isopropylbenzene	ND		480	39	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50
1,2-Dibromoethane	ND		480	39	ug/Kg	☼	08/11/21 11:05	08/13/21 16:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*08/11/21 11:05*	*08/13/21 16:10*	*50*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/11/21 11:05*	*08/13/21 16:10*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*	*08/11/21 11:05*	*08/13/21 16:10*	*50*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/11/21 11:05*	*08/13/21 16:10*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	22		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Benzo[a]anthracene	35		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Benzo[a]pyrene	33		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Benzo[b]fluoranthene	41		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Benzo[g,h,i]perylene	38		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Chrysene	52		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Fluorene	11	J	22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Phenanthrene	50		22	5.2	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1
Pyrene	42		22	4.3	ug/Kg	☼	08/12/21 10:21	08/13/21 08:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*08/12/21 10:21*	*08/13/21 08:38*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/12/21 10:21*	*08/13/21 08:38*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/12/21 10:21*	*08/13/21 08:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1100		1.7	0.70	mg/Kg	☼	08/11/21 20:43	08/13/21 21:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.1		1.0	1.0	%			08/12/21 09:46	1

Client Sample ID: Trip Blank

Date Collected: 08/10/21 00:00
Date Received: 08/10/21 16:48

Lab Sample ID: 410-50672-20

Matrix: Water

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/13/21 10:36	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/13/21 10:36	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/13/21 10:36	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:36	1

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: Trip Blank
Date Collected: 08/10/21 00:00
Date Received: 08/10/21 16:48

Lab Sample ID: 410-50672-20
Matrix: Water

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.30	ug/L			08/13/21 10:36	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/13/21 10:36	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/13/21 10:36	1
Benzene	ND		1.0	0.30	ug/L			08/13/21 10:36	1
Naphthalene	ND		5.0	1.0	ug/L			08/13/21 10:36	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/13/21 10:36	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*08/13/21 10:36*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*08/13/21 10:36*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/13/21 10:36*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/13/21 10:36*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-50672-1	Pipe 69 (2)	105	89	16 S1-	93
410-50672-2	Pipe 68 (2)	112	99	106	94
410-50672-3	Pipe 57 (2)	103	92	102	94
410-50672-4	Pipe 58 (2)	107	82	104	105
410-50672-5	Pipe 59 (2)	109	93	103	94
410-50672-6	Pipe 56 (2)	116	83	115	105
410-50672-7	Pipe 54 (2)	114	87	109	102
410-50672-8	Pipe 67 (2)	111	89	109	99
410-50672-9	DUP-5	111	89	107	99
410-50672-10	Pipe 19 (2)	107	88	105	101
410-50672-11	941-P2 (2)	109	86	107	102
410-50672-12	Pipe 18 (2)	112	87	109	102
410-50672-13	Pipe 23 (2)	114	82	112	109
410-50672-14	Pipe 24 (2)	114	86	108	103
410-50672-15	Pipe 25 (2)	111	88	107	100
410-50672-16	Pipe 74 (2)	119	80	115	108
410-50672-17	Pipe 20 (2)	114	88	109	100
410-50672-18	Pipe 21 (2)	111	94	107	95
410-50672-19	Pipe 22 (2)	104	89	98	93
LCS 410-159582/4	Lab Control Sample	104	99	102	98
LCS 410-160023/4	Lab Control Sample	92	83	93	89
LCSD 410-159582/5	Lab Control Sample Dup	101	98	102	98
LCSD 410-160023/5	Lab Control Sample Dup	95	84	95	89
MB 410-159582/7	Method Blank	105	95	105	96
MB 410-160023/7	Method Blank	105	87	99	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-50672-20	Trip Blank	95	105	99	93
LCS 410-160096/4	Lab Control Sample	97	105	101	94
LCSD 410-160096/5	Lab Control Sample Dup	97	103	100	93
MB 410-160096/6	Method Blank	97	104	100	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Job ID: 410-50672-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)						
410-50672-1	Pipe 69 (2)	75	63	84						
410-50672-2	Pipe 68 (2)	78	68	87						
410-50672-3	Pipe 57 (2)	89	75	91						
410-50672-3 MS	Pipe 57 (2)	73	61	78						
410-50672-3 MSD	Pipe 57 (2)	79	66	82						
410-50672-4	Pipe 58 (2)	80	65	78						
410-50672-5	Pipe 59 (2)	80	66	83						
410-50672-6	Pipe 56 (2)	80	67	76						
410-50672-7	Pipe 54 (2)	80	65	82						
410-50672-8	Pipe 67 (2)	83	73	81						
410-50672-9	DUP-5	83	72	81						
410-50672-10	Pipe 19 (2)	82	68	81						
410-50672-11	941-P2 (2)	80	70	80						
410-50672-12	Pipe 18 (2)	88	73	86						
410-50672-13	Pipe 23 (2)	80	64	84						
410-50672-14	Pipe 24 (2)	68	56	78						
410-50672-15	Pipe 25 (2)	66	58	70						
410-50672-16	Pipe 74 (2)	84	66	82						
410-50672-17	Pipe 20 (2)	85	73	82						
410-50672-18	Pipe 21 (2)	88	72	85						
410-50672-19	Pipe 22 (2)	74	63	86						
LCS 410-159508/2-A	Lab Control Sample	77	68	86						
MB 410-159508/1-A	Method Blank	83	76	92						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-159582/7
Matrix: Solid
Analysis Batch: 159582

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/12/21 12:17	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/12/21 12:17	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/12/21 12:17	1
Toluene	ND		5.0	0.60	ug/Kg			08/12/21 12:17	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/12/21 12:17	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/12/21 12:17	1
Benzene	ND		5.0	0.50	ug/Kg			08/12/21 12:17	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/12/21 12:17	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/12/21 12:17	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/12/21 12:17	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/12/21 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*		*08/12/21 12:17*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*		*08/12/21 12:17*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*		*08/12/21 12:17*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*		*08/12/21 12:17*	*1*

Lab Sample ID: LCS 410-159582/4
Matrix: Solid
Analysis Batch: 159582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	18.7		ug/Kg		94	78 - 120		
1,2-Dichloroethane			20.0	21.2		ug/Kg		106	71 - 128		
1,3,5-Trimethylbenzene			20.0	18.3		ug/Kg		92	73 - 120		
Toluene			20.0	18.9		ug/Kg		95	80 - 120		
Xylenes, Total			60.0	56.4		ug/Kg		94	75 - 120		
Methyl tertiary butyl ether			20.0	21.1		ug/Kg		105	72 - 120		
Benzene			20.0	20.9		ug/Kg		105	80 - 120		
Naphthalene			20.0	18.4		ug/Kg		92	48 - 130		
1,2,4-Trimethylbenzene			20.0	18.3		ug/Kg		92	73 - 120		
Isopropylbenzene			20.0	18.4		ug/Kg		92	77 - 120		
1,2-Dibromoethane			20.0	20.5		ug/Kg		103	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*
4-Bromofluorobenzene (Surr)	*99*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: LCSD 410-159582/5
Matrix: Solid
Analysis Batch: 159582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.2		ug/Kg		91	78 - 120	3	30
1,2-Dichloroethane			20.0	21.7		ug/Kg		109	71 - 128	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-159582/5
Matrix: Solid
Analysis Batch: 159582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	17.9		ug/Kg		90	73 - 120	2	30
Toluene			20.0	18.6		ug/Kg		93	80 - 120	1	30
Xylenes, Total			60.0	55.2		ug/Kg		92	75 - 120	2	30
Methyl tertiary butyl ether			20.0	21.0		ug/Kg		105	72 - 120	0	30
Benzene			20.0	20.8		ug/Kg		104	80 - 120	1	30
Naphthalene			20.0	18.7		ug/Kg		93	48 - 130	2	30
1,2,4-Trimethylbenzene			20.0	18.1		ug/Kg		90	73 - 120	1	30
Isopropylbenzene			20.0	18.0		ug/Kg		90	77 - 120	2	30
1,2-Dibromoethane			20.0	20.9		ug/Kg		105	76 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: MB 410-160023/7
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/13/21 10:30	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/13/21 10:30	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/13/21 10:30	50
Toluene	ND		250	30	ug/Kg			08/13/21 10:30	50
Xylenes, Total	ND		500	70	ug/Kg			08/13/21 10:30	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/13/21 10:30	50
Benzene	ND		250	25	ug/Kg			08/13/21 10:30	50
Naphthalene	ND		250	100	ug/Kg			08/13/21 10:30	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/13/21 10:30	50
Isopropylbenzene	ND		250	20	ug/Kg			08/13/21 10:30	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/13/21 10:30	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*		*08/13/21 10:30*	*50*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*		*08/13/21 10:30*	*50*
Dibromofluoromethane (Surr)	*99*		*50 - 141*		*08/13/21 10:30*	*50*
Toluene-d8 (Surr)	*93*		*52 - 141*		*08/13/21 10:30*	*50*

Lab Sample ID: LCS 410-160023/4
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	930		ug/Kg		93	78 - 120
1,2-Dichloroethane			1000	902		ug/Kg		90	71 - 128
1,3,5-Trimethylbenzene			1000	870		ug/Kg		87	73 - 120
Toluene			1000	941		ug/Kg		94	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-160023/4
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	3000	2890		ug/Kg		96	75 - 120
Methyl tertiary butyl ether	1000	949		ug/Kg		95	72 - 120
Benzene	1000	974		ug/Kg		97	80 - 120
Naphthalene	1000	908		ug/Kg		91	48 - 130
1,2,4-Trimethylbenzene	1000	861		ug/Kg		86	73 - 120
Isopropylbenzene	1000	966		ug/Kg		97	77 - 120
1,2-Dibromoethane	1000	957		ug/Kg		96	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*54 - 135*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*
Dibromofluoromethane (Surr)	*93*		*50 - 141*
Toluene-d8 (Surr)	*89*		*52 - 141*

Lab Sample ID: LCSD 410-160023/5
Matrix: Solid
Analysis Batch: 160023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	1000	922		ug/Kg		92	78 - 120	1	30
1,2-Dichloroethane	1000	919		ug/Kg		92	71 - 128	2	30
1,3,5-Trimethylbenzene	1000	851		ug/Kg		85	73 - 120	2	30
Toluene	1000	950		ug/Kg		95	80 - 120	1	30
Xylenes, Total	3000	2860		ug/Kg		95	75 - 120	1	30
Methyl tertiary butyl ether	1000	952		ug/Kg		95	72 - 120	0	30
Benzene	1000	979		ug/Kg		98	80 - 120	0	30
Naphthalene	1000	913		ug/Kg		91	48 - 130	1	30
1,2,4-Trimethylbenzene	1000	855		ug/Kg		86	73 - 120	1	30
Isopropylbenzene	1000	964		ug/Kg		96	77 - 120	0	30
1,2-Dibromoethane	1000	956		ug/Kg		96	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*54 - 135*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*89*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-160096/6
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/13/21 10:12	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/13/21 10:12	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:12	1

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-160096/6
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/13/21 10:12	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/13/21 10:12	1
Benzene	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Naphthalene	ND		5.0	1.0	ug/L			08/13/21 10:12	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/13/21 10:12	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/13/21 10:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/13/21 10:12*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/13/21 10:12*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/13/21 10:12*	*1*

Lab Sample ID: LCS 410-160096/4
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	16.2		ug/L		81	77 - 120		
Ethylbenzene			20.0	16.8		ug/L		84	80 - 120		
1,2-Dichloroethane			20.0	17.6		ug/L		88	73 - 124		
1,3,5-Trimethylbenzene			20.0	15.8		ug/L		79	75 - 120		
Toluene			20.0	16.4		ug/L		82	80 - 120		
Xylenes, Total			60.0	49.9		ug/L		83	80 - 120		
Methyl tertiary butyl ether			20.0	18.1		ug/L		90	69 - 122		
Benzene			20.0	18.2		ug/L		91	80 - 120		
Naphthalene			20.0	16.2		ug/L		81	53 - 124		
1,2,4-Trimethylbenzene			20.0	15.6		ug/L		78	75 - 120		
Isopropylbenzene			20.0	16.3		ug/L		81	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: LCSD 410-160096/5
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	18.4		ug/L		92	77 - 120	13	30
Ethylbenzene			20.0	18.9		ug/L		94	80 - 120	11	30
1,2-Dichloroethane			20.0	19.9		ug/L		99	73 - 124	12	30
1,3,5-Trimethylbenzene			20.0	17.6		ug/L		88	75 - 120	11	30
Toluene			20.0	18.5		ug/L		93	80 - 120	12	30
Xylenes, Total			60.0	55.7		ug/L		93	80 - 120	11	30

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-160096/5
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tertiary butyl ether			20.0	20.4		ug/L		102	69 - 122	12	30
Benzene			20.0	20.4		ug/L		102	80 - 120	11	30
Naphthalene			20.0	17.9		ug/L		89	53 - 124	10	30
1,2,4-Trimethylbenzene			20.0	17.7		ug/L		88	75 - 120	13	30
Isopropylbenzene			20.0	18.2		ug/L		91	80 - 120	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-159508/1-A
Matrix: Solid
Analysis Batch: 159845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Chrysene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Fluorene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Phenanthrene	ND		17	4.0	ug/Kg		08/12/21 10:21	08/12/21 19:13	1
Pyrene	ND		17	3.3	ug/Kg		08/12/21 10:21	08/12/21 19:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/12/21 10:21*	*08/12/21 19:13*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*08/12/21 10:21*	*08/12/21 19:13*	*1*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*	*08/12/21 10:21*	*08/12/21 19:13*	*1*

Lab Sample ID: LCS 410-159508/2-A
Matrix: Solid
Analysis Batch: 159845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159508

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene			1670	1290		ug/Kg		78	75 - 120
Benzo[a]anthracene			1670	1290		ug/Kg		77	73 - 120
Benzo[a]pyrene			1670	1440		ug/Kg		87	80 - 123
Benzo[b]fluoranthene			1670	1330		ug/Kg		80	63 - 120
Benzo[g,h,i]perylene			1670	1670		ug/Kg		100	77 - 120
Chrysene			1670	1290		ug/Kg		78	66 - 120
Fluorene			1670	1320		ug/Kg		79	68 - 120
Phenanthrene			1670	1250		ug/Kg		75	74 - 120
Pyrene			1670	1240		ug/Kg		74	70 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-159508/2-A
Matrix: Solid
Analysis Batch: 159845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159508

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	77		39 - 100
Nitrobenzene-d5 (Surr)	68		32 - 97
p-Terphenyl-d14 (Surr)	86		45 - 108

Lab Sample ID: 410-50672-3 MS
Matrix: Solid
Analysis Batch: 159966

Client Sample ID: Pipe 57 (2)
Prep Type: Total/NA
Prep Batch: 159508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	ND		3120	2350		ug/Kg	☼	75	75 - 120
Benzo[a]anthracene	ND		3120	2640		ug/Kg	☼	85	73 - 120
Benzo[a]pyrene	ND		3120	2560		ug/Kg	☼	82	80 - 123
Benzo[b]fluoranthene	ND		3120	2150		ug/Kg	☼	69	63 - 120
Benzo[g,h,i]perylene	24	J	3120	2690		ug/Kg	☼	86	77 - 120
Chrysene	ND		3120	2580		ug/Kg	☼	83	66 - 120
Fluorene	ND		3120	2410		ug/Kg	☼	77	68 - 120
Phenanthrene	ND		3120	2300		ug/Kg	☼	74	74 - 120
Pyrene	ND		3120	2400		ug/Kg	☼	77	70 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	73		39 - 100
Nitrobenzene-d5 (Surr)	61		32 - 97
p-Terphenyl-d14 (Surr)	78		45 - 108

Lab Sample ID: 410-50672-3 MSD
Matrix: Solid
Analysis Batch: 159966

Client Sample ID: Pipe 57 (2)
Prep Type: Total/NA
Prep Batch: 159508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	ND		3130	2510		ug/Kg	☼	80	75 - 120	7	30
Benzo[a]anthracene	ND		3130	2760		ug/Kg	☼	88	73 - 120	5	30
Benzo[a]pyrene	ND		3130	2720		ug/Kg	☼	87	80 - 123	6	30
Benzo[b]fluoranthene	ND		3130	2540		ug/Kg	☼	81	63 - 120	17	30
Benzo[g,h,i]perylene	24	J	3130	2800		ug/Kg	☼	89	77 - 120	4	30
Chrysene	ND		3130	2740		ug/Kg	☼	88	66 - 120	6	30
Fluorene	ND		3130	2650		ug/Kg	☼	85	68 - 120	10	30
Phenanthrene	ND		3130	2430		ug/Kg	☼	78	74 - 120	6	30
Pyrene	ND		3130	2560		ug/Kg	☼	82	70 - 120	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	79		39 - 100
Nitrobenzene-d5 (Surr)	66		32 - 97
p-Terphenyl-d14 (Surr)	82		45 - 108

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-159427/1-A
Matrix: Solid
Analysis Batch: 160481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/11/21 20:43	08/13/21 20:49	1

Lab Sample ID: LCS 410-159427/2-A
Matrix: Solid
Analysis Batch: 160481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159427

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			5.00	5.39		mg/Kg		108	80 - 120		

Lab Sample ID: 410-50672-6 MS
Matrix: Solid
Analysis Batch: 160481

Client Sample ID: Pipe 56 (2)
Prep Type: Total/NA
Prep Batch: 159427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	160	F2	5.62	77.4	4	mg/Kg	☼	-1490	75 - 125		

Lab Sample ID: 410-50672-6 MSD
Matrix: Solid
Analysis Batch: 160481

Client Sample ID: Pipe 56 (2)
Prep Type: Total/NA
Prep Batch: 159427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	160	F2	5.18	130	4 F2	mg/Kg	☼	-612	75 - 125	50	20

Lab Sample ID: 410-50672-6 DU
Matrix: Solid
Analysis Batch: 160481

Client Sample ID: Pipe 56 (2)
Prep Type: Total/NA
Prep Batch: 159427

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	160	F2	124	F3	mg/Kg	☼	26	20

GC/MS VOA

Prep Batch: 159133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1 - RA	Pipe 69 (2)	Total/NA	Solid	5035	
410-50672-1	Pipe 69 (2)	Total/NA	Solid	5035	
410-50672-19	Pipe 22 (2)	Total/NA	Solid	5035	

Prep Batch: 159136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-2	Pipe 68 (2)	Total/NA	Solid	5035	
410-50672-3	Pipe 57 (2)	Total/NA	Solid	5035	
410-50672-4	Pipe 58 (2)	Total/NA	Solid	5035	
410-50672-4 - RA	Pipe 58 (2)	Total/NA	Solid	5035	
410-50672-5	Pipe 59 (2)	Total/NA	Solid	5035	
410-50672-6	Pipe 56 (2)	Total/NA	Solid	5035	
410-50672-7	Pipe 54 (2)	Total/NA	Solid	5035	
410-50672-8	Pipe 67 (2)	Total/NA	Solid	5035	
410-50672-9	DUP-5	Total/NA	Solid	5035	
410-50672-10	Pipe 19 (2)	Total/NA	Solid	5035	
410-50672-11	941-P2 (2)	Total/NA	Solid	5035	
410-50672-12	Pipe 18 (2)	Total/NA	Solid	5035	
410-50672-13	Pipe 23 (2)	Total/NA	Solid	5035	
410-50672-14	Pipe 24 (2)	Total/NA	Solid	5035	
410-50672-15	Pipe 25 (2)	Total/NA	Solid	5035	
410-50672-16	Pipe 74 (2)	Total/NA	Solid	5035	
410-50672-17	Pipe 20 (2)	Total/NA	Solid	5035	
410-50672-18	Pipe 21 (2)	Total/NA	Solid	5035	

Analysis Batch: 159582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-2	Pipe 68 (2)	Total/NA	Solid	8260C	159136
410-50672-3	Pipe 57 (2)	Total/NA	Solid	8260C	159136
410-50672-4	Pipe 58 (2)	Total/NA	Solid	8260C	159136
410-50672-5	Pipe 59 (2)	Total/NA	Solid	8260C	159136
410-50672-6	Pipe 56 (2)	Total/NA	Solid	8260C	159136
410-50672-7	Pipe 54 (2)	Total/NA	Solid	8260C	159136
410-50672-8	Pipe 67 (2)	Total/NA	Solid	8260C	159136
410-50672-9	DUP-5	Total/NA	Solid	8260C	159136
410-50672-10	Pipe 19 (2)	Total/NA	Solid	8260C	159136
410-50672-11	941-P2 (2)	Total/NA	Solid	8260C	159136
410-50672-12	Pipe 18 (2)	Total/NA	Solid	8260C	159136
410-50672-13	Pipe 23 (2)	Total/NA	Solid	8260C	159136
410-50672-14	Pipe 24 (2)	Total/NA	Solid	8260C	159136
410-50672-15	Pipe 25 (2)	Total/NA	Solid	8260C	159136
410-50672-16	Pipe 74 (2)	Total/NA	Solid	8260C	159136
410-50672-17	Pipe 20 (2)	Total/NA	Solid	8260C	159136
410-50672-18	Pipe 21 (2)	Total/NA	Solid	8260C	159136
MB 410-159582/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-159582/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-159582/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 160023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1	Pipe 69 (2)	Total/NA	Solid	8260C	159133

GC/MS VOA (Continued)

Analysis Batch: 160023 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-19	Pipe 22 (2)	Total/NA	Solid	8260C	159133
MB 410-160023/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-160023/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160023/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 160096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-20	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-160096/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-160096/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-160096/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Analysis Batch: 160454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1 - RA	Pipe 69 (2)	Total/NA	Solid	8260C	159133
MB 410-160454/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-160454/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160454/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 160576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-4 - RA	Pipe 58 (2)	Total/NA	Solid	8260C	159136
MB 410-160576/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-160576/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160576/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 159508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1	Pipe 69 (2)	Total/NA	Solid	3546	
410-50672-2	Pipe 68 (2)	Total/NA	Solid	3546	
410-50672-3	Pipe 57 (2)	Total/NA	Solid	3546	
410-50672-4	Pipe 58 (2)	Total/NA	Solid	3546	
410-50672-5	Pipe 59 (2)	Total/NA	Solid	3546	
410-50672-6	Pipe 56 (2)	Total/NA	Solid	3546	
410-50672-7	Pipe 54 (2)	Total/NA	Solid	3546	
410-50672-8	Pipe 67 (2)	Total/NA	Solid	3546	
410-50672-9	DUP-5	Total/NA	Solid	3546	
410-50672-10	Pipe 19 (2)	Total/NA	Solid	3546	
410-50672-11	941-P2 (2)	Total/NA	Solid	3546	
410-50672-12	Pipe 18 (2)	Total/NA	Solid	3546	
410-50672-13	Pipe 23 (2)	Total/NA	Solid	3546	
410-50672-14	Pipe 24 (2)	Total/NA	Solid	3546	
410-50672-15	Pipe 25 (2)	Total/NA	Solid	3546	
410-50672-16	Pipe 74 (2)	Total/NA	Solid	3546	
410-50672-17	Pipe 20 (2)	Total/NA	Solid	3546	
410-50672-18	Pipe 21 (2)	Total/NA	Solid	3546	
410-50672-19	Pipe 22 (2)	Total/NA	Solid	3546	
MB 410-159508/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-159508/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 159508 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-3 MS	Pipe 57 (2)	Total/NA	Solid	3546	
410-50672-3 MSD	Pipe 57 (2)	Total/NA	Solid	3546	

Analysis Batch: 159845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-159508/1-A	Method Blank	Total/NA	Solid	8270D	159508
LCS 410-159508/2-A	Lab Control Sample	Total/NA	Solid	8270D	159508

Analysis Batch: 159966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1	Pipe 69 (2)	Total/NA	Solid	8270D	159508
410-50672-2	Pipe 68 (2)	Total/NA	Solid	8270D	159508
410-50672-3	Pipe 57 (2)	Total/NA	Solid	8270D	159508
410-50672-4	Pipe 58 (2)	Total/NA	Solid	8270D	159508
410-50672-5	Pipe 59 (2)	Total/NA	Solid	8270D	159508
410-50672-6	Pipe 56 (2)	Total/NA	Solid	8270D	159508
410-50672-7	Pipe 54 (2)	Total/NA	Solid	8270D	159508
410-50672-8	Pipe 67 (2)	Total/NA	Solid	8270D	159508
410-50672-9	DUP-5	Total/NA	Solid	8270D	159508
410-50672-10	Pipe 19 (2)	Total/NA	Solid	8270D	159508
410-50672-11	941-P2 (2)	Total/NA	Solid	8270D	159508
410-50672-12	Pipe 18 (2)	Total/NA	Solid	8270D	159508
410-50672-13	Pipe 23 (2)	Total/NA	Solid	8270D	159508
410-50672-14	Pipe 24 (2)	Total/NA	Solid	8270D	159508
410-50672-15	Pipe 25 (2)	Total/NA	Solid	8270D	159508
410-50672-16	Pipe 74 (2)	Total/NA	Solid	8270D	159508
410-50672-17	Pipe 20 (2)	Total/NA	Solid	8270D	159508
410-50672-18	Pipe 21 (2)	Total/NA	Solid	8270D	159508
410-50672-19	Pipe 22 (2)	Total/NA	Solid	8270D	159508
410-50672-3 MS	Pipe 57 (2)	Total/NA	Solid	8270D	159508
410-50672-3 MSD	Pipe 57 (2)	Total/NA	Solid	8270D	159508

Metals

Prep Batch: 159427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1	Pipe 69 (2)	Total/NA	Solid	3050B	
410-50672-2	Pipe 68 (2)	Total/NA	Solid	3050B	
410-50672-3	Pipe 57 (2)	Total/NA	Solid	3050B	
410-50672-4	Pipe 58 (2)	Total/NA	Solid	3050B	
410-50672-5	Pipe 59 (2)	Total/NA	Solid	3050B	
410-50672-6	Pipe 56 (2)	Total/NA	Solid	3050B	
410-50672-7	Pipe 54 (2)	Total/NA	Solid	3050B	
410-50672-8	Pipe 67 (2)	Total/NA	Solid	3050B	
410-50672-9	DUP-5	Total/NA	Solid	3050B	
410-50672-10	Pipe 19 (2)	Total/NA	Solid	3050B	
410-50672-11	941-P2 (2)	Total/NA	Solid	3050B	
410-50672-12	Pipe 18 (2)	Total/NA	Solid	3050B	
410-50672-13	Pipe 23 (2)	Total/NA	Solid	3050B	
410-50672-14	Pipe 24 (2)	Total/NA	Solid	3050B	
410-50672-15	Pipe 25 (2)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 159427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-16	Pipe 74 (2)	Total/NA	Solid	3050B	
410-50672-17	Pipe 20 (2)	Total/NA	Solid	3050B	
410-50672-18	Pipe 21 (2)	Total/NA	Solid	3050B	
410-50672-19	Pipe 22 (2)	Total/NA	Solid	3050B	
MB 410-159427/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-159427/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-50672-6 MS	Pipe 56 (2)	Total/NA	Solid	3050B	
410-50672-6 MSD	Pipe 56 (2)	Total/NA	Solid	3050B	
410-50672-6 DU	Pipe 56 (2)	Total/NA	Solid	3050B	

Analysis Batch: 160481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1	Pipe 69 (2)	Total/NA	Solid	6010C	159427
410-50672-2	Pipe 68 (2)	Total/NA	Solid	6010C	159427
410-50672-3	Pipe 57 (2)	Total/NA	Solid	6010C	159427
410-50672-4	Pipe 58 (2)	Total/NA	Solid	6010C	159427
410-50672-5	Pipe 59 (2)	Total/NA	Solid	6010C	159427
410-50672-6	Pipe 56 (2)	Total/NA	Solid	6010C	159427
410-50672-7	Pipe 54 (2)	Total/NA	Solid	6010C	159427
410-50672-8	Pipe 67 (2)	Total/NA	Solid	6010C	159427
410-50672-9	DUP-5	Total/NA	Solid	6010C	159427
410-50672-10	Pipe 19 (2)	Total/NA	Solid	6010C	159427
410-50672-11	941-P2 (2)	Total/NA	Solid	6010C	159427
410-50672-12	Pipe 18 (2)	Total/NA	Solid	6010C	159427
410-50672-13	Pipe 23 (2)	Total/NA	Solid	6010C	159427
410-50672-14	Pipe 24 (2)	Total/NA	Solid	6010C	159427
410-50672-15	Pipe 25 (2)	Total/NA	Solid	6010C	159427
410-50672-16	Pipe 74 (2)	Total/NA	Solid	6010C	159427
410-50672-17	Pipe 20 (2)	Total/NA	Solid	6010C	159427
410-50672-18	Pipe 21 (2)	Total/NA	Solid	6010C	159427
410-50672-19	Pipe 22 (2)	Total/NA	Solid	6010C	159427
MB 410-159427/1-A	Method Blank	Total/NA	Solid	6010C	159427
LCS 410-159427/2-A	Lab Control Sample	Total/NA	Solid	6010C	159427
410-50672-6 MS	Pipe 56 (2)	Total/NA	Solid	6010C	159427
410-50672-6 MSD	Pipe 56 (2)	Total/NA	Solid	6010C	159427
410-50672-6 DU	Pipe 56 (2)	Total/NA	Solid	6010C	159427

General Chemistry

Analysis Batch: 159245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-3	Pipe 57 (2)	Total/NA	Solid	Moisture	
410-50672-4	Pipe 58 (2)	Total/NA	Solid	Moisture	
410-50672-13	Pipe 23 (2)	Total/NA	Solid	Moisture	
410-50672-17	Pipe 20 (2)	Total/NA	Solid	Moisture	

Analysis Batch: 159325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-1	Pipe 69 (2)	Total/NA	Solid	Moisture	
410-50672-2	Pipe 68 (2)	Total/NA	Solid	Moisture	
410-50672-5	Pipe 59 (2)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 159325 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-6	Pipe 56 (2)	Total/NA	Solid	Moisture	
410-50672-7	Pipe 54 (2)	Total/NA	Solid	Moisture	
410-50672-8	Pipe 67 (2)	Total/NA	Solid	Moisture	
410-50672-9	DUP-5	Total/NA	Solid	Moisture	
410-50672-10	Pipe 19 (2)	Total/NA	Solid	Moisture	
410-50672-11	941-P2 (2)	Total/NA	Solid	Moisture	
410-50672-12	Pipe 18 (2)	Total/NA	Solid	Moisture	
410-50672-14	Pipe 24 (2)	Total/NA	Solid	Moisture	
410-50672-15	Pipe 25 (2)	Total/NA	Solid	Moisture	
410-50672-16	Pipe 74 (2)	Total/NA	Solid	Moisture	
410-50672-18	Pipe 21 (2)	Total/NA	Solid	Moisture	

Analysis Batch: 159620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50672-19	Pipe 22 (2)	Total/NA	Solid	Moisture	

Client Sample ID: Pipe 69 (2) — **Lab Sample ID: 410-50672-1**
Date Collected: 08/09/21 13:05 — **Matrix: Solid**
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 69 (2) — **Lab Sample ID: 410-50672-1**
Date Collected: 08/09/21 13:05 — **Matrix: Solid**
Date Received: 08/10/21 16:48 — **Percent Solids: 48.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159133	08/11/21 11:05	JJT8	ELLE
Total/NA	Analysis	8260C		50	160023	08/13/21 15:49	USEJ	ELLE
Total/NA	Prep	5035	RA		159133	08/11/21 11:05	JJT8	ELLE
Total/NA	Analysis	8260C	RA	50	160454	08/13/21 23:14	SWV2	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 01:08	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:23	XQY5	ELLE

Client Sample ID: Pipe 68 (2) — **Lab Sample ID: 410-50672-2**
Date Collected: 08/09/21 13:15 — **Matrix: Solid**
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 68 (2) — **Lab Sample ID: 410-50672-2**
Date Collected: 08/09/21 13:15 — **Matrix: Solid**
Date Received: 08/10/21 16:48 — **Percent Solids: 58.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 16:12	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 01:30	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:39	XQY5	ELLE

Client Sample ID: Pipe 57 (2) — **Lab Sample ID: 410-50672-3**
Date Collected: 08/09/21 13:35 — **Matrix: Solid**
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159245	08/11/21 14:37	X4C8	ELLE

Client Sample ID: Pipe 57 (2)

Lab Sample ID: 410-50672-3

Date Collected: 08/09/21 13:35

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 53.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 17:21	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 01:53	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:19	XQY5	ELLE

Client Sample ID: Pipe 58 (2)

Lab Sample ID: 410-50672-4

Date Collected: 08/09/21 13:50

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159245	08/11/21 14:37	X4C8	ELLE

Client Sample ID: Pipe 58 (2)

Lab Sample ID: 410-50672-4

Date Collected: 08/09/21 13:50

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 17:45	USEJ	ELLE
Total/NA	Prep	5035	RA		159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	160576	08/15/21 19:24	UCB5	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 03:00	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:26	XQY5	ELLE

Client Sample ID: Pipe 59 (2)

Lab Sample ID: 410-50672-5

Date Collected: 08/09/21 14:05

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 59 (2)

Lab Sample ID: 410-50672-5

Date Collected: 08/09/21 14:05

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 55.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 18:08	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 03:23	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:29	XQY5	ELLE

Client Sample ID: Pipe 56 (2)

Lab Sample ID: 410-50672-6

Date Collected: 08/09/21 14:20

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 56 (2)

Lab Sample ID: 410-50672-6

Date Collected: 08/09/21 14:20

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 18:31	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 03:45	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:01	XQY5	ELLE

Client Sample ID: Pipe 54 (2)

Lab Sample ID: 410-50672-7

Date Collected: 08/09/21 14:30

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 54 (2)

Lab Sample ID: 410-50672-7

Date Collected: 08/09/21 14:30

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 18:54	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 04:08	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:48	XQY5	ELLE

Client Sample ID: Pipe 67 (2)

Lab Sample ID: 410-50672-8

Date Collected: 08/09/21 14:50

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 67 (2)

Lab Sample ID: 410-50672-8

Date Collected: 08/09/21 14:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 19:17	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 04:30	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:07	XQY5	ELLE

Client Sample ID: DUP-5

Lab Sample ID: 410-50672-9

Date Collected: 08/10/21 00:00
Matrix: Solid
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: DUP-5

Lab Sample ID: 410-50672-9

Date Collected: 08/10/21 00:00
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 72.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 14:16	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 04:53	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:22	XQY5	ELLE

Client Sample ID: Pipe 19 (2)

Lab Sample ID: 410-50672-10

Date Collected: 08/10/21 09:05
Matrix: Solid
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 19 (2)

Lab Sample ID: 410-50672-10

Date Collected: 08/10/21 09:05
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 19:40	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 05:15	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:26	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: 941-P2 (2)

Lab Sample ID: 410-50672-11

Date Collected: 08/10/21 09:20
Date Received: 08/10/21 16:48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: 941-P2 (2)

Lab Sample ID: 410-50672-11

Date Collected: 08/10/21 09:20
Date Received: 08/10/21 16:48

Matrix: Solid
Percent Solids: 66.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 14:40	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 05:38	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:42	XQY5	ELLE

Client Sample ID: Pipe 18 (2)

Lab Sample ID: 410-50672-12

Date Collected: 08/10/21 09:35
Date Received: 08/10/21 16:48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 18 (2)

Lab Sample ID: 410-50672-12

Date Collected: 08/10/21 09:35
Date Received: 08/10/21 16:48

Matrix: Solid
Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 12:01	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 16:35	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 06:00	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:45	XQY5	ELLE

Client Sample ID: Pipe 23 (2)

Lab Sample ID: 410-50672-13

Date Collected: 08/10/21 09:45
Date Received: 08/10/21 16:48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159245	08/11/21 14:37	X4C8	ELLE

Client Sample ID: Pipe 23 (2)

Lab Sample ID: 410-50672-13

Date Collected: 08/10/21 09:45

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 15:03	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 06:23	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:04	XQY5	ELLE

Client Sample ID: Pipe 24 (2)

Lab Sample ID: 410-50672-14

Date Collected: 08/10/21 09:55

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 24 (2)

Lab Sample ID: 410-50672-14

Date Collected: 08/10/21 09:55

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 72.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 15:26	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 06:45	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:16	XQY5	ELLE

Client Sample ID: Pipe 25 (2)

Lab Sample ID: 410-50672-15

Date Collected: 08/10/21 10:05

Matrix: Solid

Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 25 (2)

Lab Sample ID: 410-50672-15

Date Collected: 08/10/21 10:05

Matrix: Solid

Date Received: 08/10/21 16:48

Percent Solids: 69.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 15:49	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 07:08	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 22:01	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50672-16

Date Collected: 08/10/21 10:15
Date Received: 08/10/21 16:48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Client Sample ID: Pipe 74 (2)

Lab Sample ID: 410-50672-16

Date Collected: 08/10/21 10:15
Date Received: 08/10/21 16:48

Matrix: Solid
Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 20:03	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 07:30	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:58	XQY5	ELLE

Client Sample ID: Pipe 20 (2)

Lab Sample ID: 410-50672-17

Date Collected: 08/10/21 10:30
Date Received: 08/10/21 16:48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159245	08/11/21 14:37	X4C8	ELLE

Client Sample ID: Pipe 20 (2)

Lab Sample ID: 410-50672-17

Date Collected: 08/10/21 10:30
Date Received: 08/10/21 16:48

Matrix: Solid
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 20:26	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 07:53	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:51	XQY5	ELLE

Client Sample ID: Pipe 21 (2)

Lab Sample ID: 410-50672-18

Date Collected: 08/10/21 10:40
Date Received: 08/10/21 16:48

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159325	08/11/21 16:33	X4C8	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Client Sample ID: Pipe 21 (2)

Lab Sample ID: 410-50672-18

Date Collected: 08/10/21 10:40
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159136	08/11/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		1	159582	08/12/21 16:58	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 08:15	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:54	XQY5	ELLE

Client Sample ID: Pipe 22 (2)

Lab Sample ID: 410-50672-19

Date Collected: 08/10/21 10:50
Matrix: Solid
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159620	08/12/21 09:46	UGCW	ELLE

Client Sample ID: Pipe 22 (2)

Lab Sample ID: 410-50672-19

Date Collected: 08/10/21 10:50
Matrix: Solid
Date Received: 08/10/21 16:48
Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159133	08/11/21 11:05	JJT8	ELLE
Total/NA	Analysis	8260C		50	160023	08/13/21 16:10	USEJ	ELLE
Total/NA	Prep	3546			159508	08/12/21 10:21	U9KU	ELLE
Total/NA	Analysis	8270D		1	159966	08/13/21 08:38	ULM3	ELLE
Total/NA	Prep	3050B			159427	08/11/21 20:43	UAMX	ELLE
Total/NA	Analysis	6010C		1	160481	08/13/21 21:20	XQY5	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-50672-20

Date Collected: 08/10/21 00:00
Matrix: Water
Date Received: 08/10/21 16:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	160096	08/13/21 10:36	UKAD	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50672-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-50672-1	Pipe 69 (2)	Solid	08/09/21 13:05	08/10/21 16:48
410-50672-2	Pipe 68 (2)	Solid	08/09/21 13:15	08/10/21 16:48
410-50672-3	Pipe 57 (2)	Solid	08/09/21 13:35	08/10/21 16:48
410-50672-4	Pipe 58 (2)	Solid	08/09/21 13:50	08/10/21 16:48
410-50672-5	Pipe 59 (2)	Solid	08/09/21 14:05	08/10/21 16:48
410-50672-6	Pipe 56 (2)	Solid	08/09/21 14:20	08/10/21 16:48
410-50672-7	Pipe 54 (2)	Solid	08/09/21 14:30	08/10/21 16:48
410-50672-8	Pipe 67 (2)	Solid	08/09/21 14:50	08/10/21 16:48
410-50672-9	DUP-5	Solid	08/10/21 00:00	08/10/21 16:48
410-50672-10	Pipe 19 (2)	Solid	08/10/21 09:05	08/10/21 16:48
410-50672-11	941-P2 (2)	Solid	08/10/21 09:20	08/10/21 16:48
410-50672-12	Pipe 18 (2)	Solid	08/10/21 09:35	08/10/21 16:48
410-50672-13	Pipe 23 (2)	Solid	08/10/21 09:45	08/10/21 16:48
410-50672-14	Pipe 24 (2)	Solid	08/10/21 09:55	08/10/21 16:48
410-50672-15	Pipe 25 (2)	Solid	08/10/21 10:05	08/10/21 16:48
410-50672-16	Pipe 74 (2)	Solid	08/10/21 10:15	08/10/21 16:48
410-50672-17	Pipe 20 (2)	Solid	08/10/21 10:30	08/10/21 16:48
410-50672-18	Pipe 21 (2)	Solid	08/10/21 10:40	08/10/21 16:48
410-50672-19	Pipe 22 (2)	Solid	08/10/21 10:50	08/10/21 16:48
410-50672-20	Trip Blank	Water	08/10/21 00:00	08/10/21 16:48

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-50672 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: JA/SP/DH	Lab PM: Carter, Amek A	COC No: 0-30583-9562.4
Client Contact: Mark Schaeffer	Phone:	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 4 of 5
Company: Stantec Consulting Corp.	PWSID:	Analysis Requested	Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:		Preservation Codes:
City: West Chester	TAT Requested (days): 5 day		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No		
Phone:	PO #: Purchase Order Requested		Other:
Email: mark.schaeffer@stantec.com	WO #:		
Project Name: PBF Logistics	Project #: 41007459		
Site: 5/St Street Terminal	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	A		
Pipe ~~68~~ 69 (2)	8/9/21	1305	G	Solid			X	X			
Pipe 68 (2)	8/9/21	1315	G	Solid			X	X			
Pipe 57 (2)	8/9/21	1335	G	Solid			X	X			
Pipe 58 (2)	8/9/21	1350	G	Solid			X	X			
Pipe 59 (2)	8/9/21	1405	G	Solid			X	X			
Pipe 56 (2)	8/9/21	1420	G	Solid			X	X			
Pipe 54 (2)	8/9/21	1430	G	Solid			X	X			
Pipe 67 (2)	8/9/21	1450	G	Water			X	X			
DUP-5	8/10/21	—	G	Water			X	X			
Pipe 19 (2)	8/10/21	0905	G	Water			X	X			
941-P2 (2)	8/10/21	0920	G	Water			X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/10/21 1105	Stantec	Pierre	8/10/21 11:05	
2	Pierre	8/10/21 1635				
3					8/10/21 16:40	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.6-4.1 AR Rec'd 8/10/21 (5)

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: TA / DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-31049-9562 1
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran Carter@eurofinset.com	State of Origin: PA	Page: Page 1 of 8
Company: Stantec Consulting Corp	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Loaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Loaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	A		
Pipe 18 (2)	8/10/21	0935	G	Solid		X	X			
Pipe 23 (2)	8/10/21	0945	G	Solid		X	X			
Pipe 24 (2)	8/10/21	0955	G	Solid		X	X			
Pipe 25 (2)	8/10/21	1005	G	Solid		X	X			
Pipe 74 (2)	8/10/21	1015	G	Solid		X	X			
Pipe 20 (2)	8/10/21	1030	G	Solid		X	X			
Pipe 21 (2)	8/10/21	1040	G	Solid		X	X			
Pipe 22 (2)	8/10/21	1050	G	Solid		X	X			
Trip Blank	8/10/21	—	G	Solid				X		
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/10/21 1105	Stantec		8/10/21 1105	
2		8/10/21 1630				
3					8/10/21 1604	Eurofins

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.6-4.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-50672-1

Login Number: 50672

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Jeremiah, Cory T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-50879-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/17/2021 2:09:48 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
8/17/2021 2:09:48 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
^c	CCV Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
FL	MS and/or MSD recovery below control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Job ID: 410-50879-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-50879-1

Receipt
The samples were received on 8/11/2021 5:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.7°C and 1.4°C

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 410-160689 recovered above the upper control limit for Bromomethane and Carbon disulfide. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: The following samples were diluted due to the abundance of non-target analytes: 941-P4 (3) (410-50879-2), Pipe 38 (2) (410-50879-13) and Dup-06 (410-50879-26). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: Pipe 34 (2) (410-50879-9). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: Pipe 40 (2) (410-50879-15). Elevated reporting limits (RLs) are provided.

Method 8260C: Internal standard (ISTD) response for t-Butyl alcohol-d10 for the following sample was outside acceptance criteria: Pipe 39 (2) (410-50879-14). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 410-160576 recovered outside acceptance criteria, low biased, for 1,2-Dichloroethane, Methyl tertiary butyl ether and Naphthalene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: 2040-P5 (3) (410-50879-19). The sample(s) was re-analyzed and ISTD response was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: (410-50879-A-1-B MSD). The parent sample's and matrix spike (MS) surrogate recovery was within limits. The MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: 941-P3 (3) — Lab Sample ID: 410-50879-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.81	J	9.4	0.75	ug/Kg	1	☼	8260C	Total/NA
1,2-Dichloroethane	3.9	J ^c	9.4	1.1	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	2.2	J	9.4	0.94	ug/Kg	1	☼	8260C	Total/NA
Toluene	37		9.4	1.1	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	14	J	19	2.6	ug/Kg	1	☼	8260C	Total/NA
Benzene	46		9.4	0.94	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.9	J	9.4	0.94	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	4.7	J F2 FL	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	6.4	J F2 FL	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	8.5	J F2 FL	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	27	F2 FL	22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	12	J F2 FL	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	610		1.5	0.58	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 941-P4 (3) — Lab Sample ID: 410-50879-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	5.9	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.4	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	9.5	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	7.5	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	12	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	23		21	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	8.7	J	21	4.1	ug/Kg	1	☼	8270D	Total/NA
Lead	270		1.5	0.60	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 941-P5 (3) — Lab Sample ID: 410-50879-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	6.5	J	9.5	1.1	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.3	J	9.5	0.95	ug/Kg	1	☼	8260C	Total/NA
Toluene	30		9.5	1.1	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	8.5	J	19	2.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	38		9.5	0.95	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.4	J	9.5	0.95	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	6.6	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.8	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	11	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	9.3	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	16	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	23		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	12	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	37		1.5	0.62	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 941-P1 (3) — Lab Sample ID: 410-50879-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	4.6	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.0	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.3	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	4.8	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	7.9		1.5	0.60	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: Pipe-32 (2) — Lab Sample ID: 410-50879-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.2	J ^c	9.6	1.1	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.98	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Toluene	3.0	J	9.6	1.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	5.1	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.2	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Anthracene	14	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5.9	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.7	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	6.4	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	8.4	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	7.9	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	100		23	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	6.5	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Lead	95		2.0	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 33 (2) — Lab Sample ID: 410-50879-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.8	J	10	1.2	ug/Kg	1	☼	8260C	Total/NA
Toluene	6.6	J	10	1.2	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.3	J	20	2.8	ug/Kg	1	☼	8260C	Total/NA
Benzene	9.1	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Anthracene	51		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	40		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	29		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	89		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	64		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	65		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	12	J	25	5.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	84		25	6.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	42		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Lead	920		2.1	0.83	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2045-P3 (3) — Lab Sample ID: 410-50879-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.0	J	10	1.2	ug/Kg	1	☼	8260C	Total/NA
Benzene	7.5	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	5.6	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	7.5	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.7	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5.9	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	9.3	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	28		23	5.6	ug/Kg	1	☼	8270D	Total/NA
Lead	14		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2045-P1 (3) — Lab Sample ID: 410-50879-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.73	J	7.5	0.60	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.2	J	7.5	0.90	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.7	J	15	2.1	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: 2045-P1 (3) (Continued) — Lab Sample ID: 410-50879-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
Anthracene	18	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	4.5	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.3	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.9	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	5.3	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	23		23	5.4	ug/Kg	1	☼	8270D	Total/NA
Lead	100		1.8	0.71	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 34 (2) — Lab Sample ID: 410-50879-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	100	J	1000	83	ug/Kg	100	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	610	J	1000	100	ug/Kg	100	☼	8260C	Total/NA
Xylenes, Total	750	J	2100	290	ug/Kg	100	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1000		1000	100	ug/Kg	100	☼	8260C	Total/NA
Anthracene	100		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	12	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	16	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	130		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	17	J	21	4.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	26		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	27		21	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	36		21	4.3	ug/Kg	1	☼	8270D	Total/NA
Lead	79		1.7	0.67	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 35 (2) — Lab Sample ID: 410-50879-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.4	J ^c	11	1.3	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	3.6	J	11	1.1	ug/Kg	1	☼	8260C	Total/NA
Toluene	4.8	J	11	1.3	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.5	J	22	3.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	7.4	J	11	1.1	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	5.8	J	11	1.1	ug/Kg	1	☼	8260C	Total/NA
Anthracene	9.0	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	6.1	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	32		23	5.4	ug/Kg	1	☼	8270D	Total/NA
Lead	17		1.4	0.57	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 36 (2) — Lab Sample ID: 410-50879-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.8	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Anthracene	9.3	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	5.5	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.6	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	25		24	5.7	ug/Kg	1	☼	8270D	Total/NA
Lead	26		1.7	0.68	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: Pipe 37 (2) — Lab Sample ID: 410-50879-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	30		2.3	0.91	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 38 (2) — Lab Sample ID: 410-50879-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	21	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	15	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	22	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	20	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	24	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	29	J	31	7.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	33		31	6.2	ug/Kg	1	☼	8270D	Total/NA
Lead	170		1.9	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 39 (2) — Lab Sample ID: 410-50879-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	14	J	28	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	11	J	28	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	7.7	J	28	6.6	ug/Kg	1	☼	8270D	Total/NA
Lead	64		2.1	0.85	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 40 (2) — Lab Sample ID: 410-50879-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	63	J	710	57	ug/Kg	50	☼	8260C	Total/NA
Toluene	160	J	710	85	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	210	J	1400	200	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	16	J	25	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	9.4	J	25	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	16	J	25	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	16	J	25	4.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	25		25	4.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	87		25	4.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	150		25	5.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120		25	4.9	ug/Kg	1	☼	8270D	Total/NA
Lead	28		1.9	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2040-P2 (3) — Lab Sample ID: 410-50879-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.95	J	7.1	0.86	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.3	J	7.1	0.71	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	7.1	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	8.6	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	8.9	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.5	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	8.1	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	6.0	J	23	5.5	ug/Kg	1	☼	8270D	Total/NA
Lead	1200		1.9	0.75	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: 2040-P3 (3) — Lab Sample ID: 410-50879-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	14	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	40		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	33		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	49		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	28		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	46		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	6.2	J	20	4.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	66		20	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	70		20	4.0	ug/Kg	1	☼	8270D	Total/NA
Lead	13		1.3	0.52	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2040-P4 (3) — Lab Sample ID: 410-50879-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	4.7	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	16	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	16	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	22		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	16	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	27		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	55		20	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	22		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	40		1.2	0.50	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2040-P5 (3) — Lab Sample ID: 410-50879-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	5.1	J	9.4	1.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	4.5	J	9.4	0.94	ug/Kg	1	☼	8260C	Total/NA
Anthracene	22		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	16	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	36		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	19	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	120		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	16	J	20	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	120		20	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	41		20	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	21		1.3	0.54	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 31 (2) — Lab Sample ID: 410-50879-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	14	J	32	6.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	7.6	J	32	7.6	ug/Kg	1	☼	8270D	Total/NA
Lead	31		2.0	0.80	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 26 (2) — Lab Sample ID: 410-50879-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	17	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	12	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	8.9	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 26 (2) (Continued) — Lab Sample ID: 410-50879-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	13	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	12	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	26		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	20	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	32	F2	1.8	0.71	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 4847-P4 (3) — Lab Sample ID: 410-50879-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	5.1	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	3.6		1.4	0.56	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2040-P1 (3) — Lab Sample ID: 410-50879-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	11	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	5.8	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5.6	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	7.9	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.3	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	7.5	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	26		23	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	7.9	J	23	4.7	ug/Kg	1	☼	8270D	Total/NA
Lead	250		1.7	0.68	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 28 (2) — Lab Sample ID: 410-50879-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.8	J	9.3	1.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.4	J	9.3	0.93	ug/Kg	1	☼	8260C	Total/NA
Lead	14		1.7	0.67	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-50879-25

No Detections.

Client Sample ID: Dup-06 — Lab Sample ID: 410-50879-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	24	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	14	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	26		26	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	17	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	39		26	5.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	100		26	5.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	160		26	6.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	100		26	5.1	ug/Kg	1	☼	8270D	Total/NA
Lead	20		1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 941-P3 (3)

Date Collected: 08/10/21 11:10
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-1

Matrix: Solid
Percent Solids: 74.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**0.81**	**J**	9.4	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
1,2-Dichloroethane	**3.9**	**J ^c**	9.4	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
1,3,5-Trimethylbenzene	**2.2**	**J**	9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
Toluene	**37**		9.4	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
Xylenes, Total	**14**	**J**	19	2.6	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
Methyl tertiary butyl ether	ND	^c	9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
Benzene	**46**		9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
Naphthalene	ND	^c	9.4	3.8	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
1,2,4-Trimethylbenzene	**1.9**	**J**	9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
Isopropylbenzene	ND		9.4	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1
1,2-Dibromoethane	ND		9.4	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/12/21 11:20*	*08/15/21 22:03*	*1*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*	*08/12/21 11:20*	*08/15/21 22:03*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/12/21 11:20*	*08/15/21 22:03*	*1*
Toluene-d8 (Surr)	*100*		*52 - 141*	*08/12/21 11:20*	*08/15/21 22:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND	F2 FL	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Benzo[a]anthracene	**4.7**	**J F2 FL**	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Benzo[a]pyrene	ND	F2 FL	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Benzo[b]fluoranthene	**6.4**	**J F2 FL**	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Benzo[g,h,i]perylene	ND	F2 FL	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Chrysene	**8.5**	**J F2 FL**	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Fluorene	ND	F2 FL	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Phenanthrene	**27**	**F2 FL**	22	5.3	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1
Pyrene	**12**	**J F2 FL**	22	4.4	ug/Kg	☼	08/13/21 10:00	08/14/21 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*	*08/13/21 10:00*	*08/14/21 00:07*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 10:00*	*08/14/21 00:07*	*1*
p-Terphenyl-d14 (Surr)	*70*		*45 - 108*	*08/13/21 10:00*	*08/14/21 00:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**610**		1.5	0.58	mg/Kg	☼	08/12/21 13:44	08/13/21 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.2**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 941-P4 (3)

Date Collected: 08/10/21 11:20
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-2

Matrix: Solid
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		560	45	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
1,2-Dichloroethane	ND		560	67	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50

Client Sample ID: 941-P4 (3)

Date Collected: 08/10/21 11:20
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-2

Matrix: Solid
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		560	56	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
Toluene	ND		560	67	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
Xylenes, Total	ND		1100	160	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
Methyl tertiary butyl ether	ND		560	56	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
Benzene	ND		560	56	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
Naphthalene	ND		560	220	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
1,2,4-Trimethylbenzene	ND		560	56	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
Isopropylbenzene	ND		560	45	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50
1,2-Dibromoethane	ND		560	45	ug/Kg	☼	08/12/21 11:19	08/16/21 17:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*54 - 135*	*08/12/21 11:19*	*08/16/21 17:42*	*50*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/12/21 11:19*	*08/16/21 17:42*	*50*
Dibromofluoromethane (Surr)	*83*		*50 - 141*	*08/12/21 11:19*	*08/16/21 17:42*	*50*
Toluene-d8 (Surr)	*81*		*52 - 141*	*08/12/21 11:19*	*08/16/21 17:42*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Benzo[a]anthracene	**5.9**	**J**	21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Benzo[a]pyrene	**6.4**	**J**	21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Benzo[b]fluoranthene	**9.5**	**J**	21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Benzo[g,h,i]perylene	**7.5**	**J**	21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Chrysene	**12**	**J**	21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Fluorene	ND		21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Phenanthrene	**23**		21	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1
Pyrene	**8.7**	**J**	21	4.1	ug/Kg	☼	08/13/21 10:00	08/14/21 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*	*08/13/21 10:00*	*08/14/21 01:14*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/13/21 10:00*	*08/14/21 01:14*	*1*
p-Terphenyl-d14 (Surr)	*74*		*45 - 108*	*08/13/21 10:00*	*08/14/21 01:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**270**		1.5	0.60	mg/Kg	☼	08/12/21 07:35	08/16/21 20:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.2**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 941-P5 (3)

Date Collected: 08/10/21 11:30
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-3

Matrix: Solid
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.5	0.76	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
1,2-Dichloroethane	**6.5**	**J**	9.5	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
1,3,5-Trimethylbenzene	**1.3**	**J**	9.5	0.95	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
Toluene	**30**		9.5	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1

Client Sample ID: 941-P5 (3)

Lab Sample ID: 410-50879-3

Date Collected: 08/10/21 11:30
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**8.5**	**J**	19	2.7	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
Methyl tertiary butyl ether	ND		9.5	0.95	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
Benzene	**38**		9.5	0.95	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
Naphthalene	ND		9.5	3.8	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
1,2,4-Trimethylbenzene	**1.4**	**J**	9.5	0.95	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
Isopropylbenzene	ND		9.5	0.76	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1
1,2-Dibromoethane	ND		9.5	0.76	ug/Kg	☼	08/12/21 11:20	08/16/21 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*	*08/12/21 11:20*	*08/16/21 14:53*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*08/12/21 11:20*	*08/16/21 14:53*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/16/21 14:53*	*1*
Toluene-d8 (Surr)	*108*		*52 - 141*	*08/12/21 11:20*	*08/16/21 14:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Benzo[a]anthracene	**6.6**	**J**	21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Benzo[a]pyrene	**6.8**	**J**	21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Benzo[b]fluoranthene	**11**	**J**	21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Benzo[g,h,i]perylene	**9.3**	**J**	21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Chrysene	**16**	**J**	21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Phenanthrene	**23**		21	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1
Pyrene	**12**	**J**	21	4.2	ug/Kg	☼	08/13/21 10:00	08/14/21 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*	*08/13/21 10:00*	*08/14/21 01:37*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/13/21 10:00*	*08/14/21 01:37*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/13/21 10:00*	*08/14/21 01:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**37**		1.5	0.62	mg/Kg	☼	08/12/21 07:35	08/16/21 21:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.8**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 941-P1 (3)

Lab Sample ID: 410-50879-4

Date Collected: 08/10/21 11:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 83.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		3.8	0.31	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
1,2-Dichloroethane	ND		3.8	0.46	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
1,3,5-Trimethylbenzene	ND		3.8	0.38	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
Toluene	ND		3.8	0.46	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
Xylenes, Total	ND		7.6	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
Methyl tertiary butyl ether	ND		3.8	0.38	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1

Client Sample ID: 941-P1 (3)

Lab Sample ID: 410-50879-4

Date Collected: 08/10/21 11:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 83.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.8	0.38	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
Naphthalene	ND		3.8	1.5	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
1,2,4-Trimethylbenzene	ND		3.8	0.38	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
Isopropylbenzene	ND		3.8	0.31	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1
1,2-Dibromoethane	ND		3.8	0.31	ug/Kg	☼	08/12/21 11:20	08/16/21 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/12/21 11:20*	*08/16/21 15:15*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/12/21 11:20*	*08/16/21 15:15*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/12/21 11:20*	*08/16/21 15:15*	*1*
Toluene-d8 (Surr)	*100*		*52 - 141*	*08/12/21 11:20*	*08/16/21 15:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Benzo[a]anthracene	**4.6**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Benzo[a]pyrene	**4.0**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Benzo[b]fluoranthene	**5.3**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Benzo[g,h,i]perylene	ND		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Chrysene	**4.8**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Fluorene	ND		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Phenanthrene	ND		20	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1
Pyrene	ND		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/13/21 10:00*	*08/14/21 02:00*	*1*
Nitrobenzene-d5 (Surr)	*71*		*32 - 97*	*08/13/21 10:00*	*08/14/21 02:00*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/13/21 10:00*	*08/14/21 02:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**7.9**		1.5	0.60	mg/Kg	☼	08/12/21 07:35	08/16/21 20:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.7**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe-32 (2)

Lab Sample ID: 410-50879-5

Date Collected: 08/10/21 12:05
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 70.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	0.77	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
1,2-Dichloroethane	**1.2**	**J ^c**	9.6	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
1,3,5-Trimethylbenzene	**0.98**	**J**	9.6	0.96	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
Toluene	**3.0**	**J**	9.6	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
Xylenes, Total	ND		19	2.7	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
Methyl tertiary butyl ether	ND	^c	9.6	0.96	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
Benzene	**5.1**	**J**	9.6	0.96	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
Naphthalene	ND	^c	9.6	3.8	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1

Client Sample ID: Pipe-32 (2)

Lab Sample ID: 410-50879-5

Date Collected: 08/10/21 12:05
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 70.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**1.2**	**J**	9.6	0.96	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
Isopropylbenzene	ND		9.6	0.77	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1
1,2-Dibromoethane	ND		9.6	0.77	ug/Kg	☼	08/12/21 11:20	08/15/21 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/12/21 11:20*	*08/15/21 23:56*	*1*
4-Bromofluorobenzene (Surr)	*79*		*50 - 131*	*08/12/21 11:20*	*08/15/21 23:56*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/12/21 11:20*	*08/15/21 23:56*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/12/21 11:20*	*08/15/21 23:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**14**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Benzo[a]anthracene	ND		23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Benzo[a]pyrene	**5.9**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Benzo[b]fluoranthene	**5.7**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Benzo[g,h,i]perylene	**6.4**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Chrysene	**8.4**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Fluorene	**7.9**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Phenanthrene	**100**		23	5.6	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1
Pyrene	**6.5**	**J**	23	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*39 - 100*	*08/13/21 10:00*	*08/14/21 02:22*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 10:00*	*08/14/21 02:22*	*1*
p-Terphenyl-d14 (Surr)	*70*		*45 - 108*	*08/13/21 10:00*	*08/14/21 02:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**95**		2.0	0.78	mg/Kg	☼	08/12/21 07:35	08/16/21 20:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.7**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 33 (2)

Lab Sample ID: 410-50879-6

Date Collected: 08/10/21 12:15
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 66.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.80	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
1,2-Dichloroethane	**1.8**	**J**	10	1.2	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
Toluene	**6.6**	**J**	10	1.2	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
Xylenes, Total	**3.3**	**J**	20	2.8	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
Methyl tertiary butyl ether	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
Benzene	**9.1**	**J**	10	1.0	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
Naphthalene	ND		10	4.0	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
1,2,4-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1
Isopropylbenzene	ND		10	0.80	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1

Client Sample ID: Pipe 33 (2)

Lab Sample ID: 410-50879-6

Date Collected: 08/10/21 12:15
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 66.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		10	0.80	ug/Kg	☼	08/12/21 11:20	08/16/21 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/12/21 11:20*	*08/16/21 15:38*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*08/12/21 11:20*	*08/16/21 15:38*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/12/21 11:20*	*08/16/21 15:38*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/12/21 11:20*	*08/16/21 15:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**51**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Benzo[a]anthracene	**40**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Benzo[a]pyrene	**29**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Benzo[b]fluoranthene	**89**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Benzo[g,h,i]perylene	**64**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Chrysene	**65**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Fluorene	**12**	**J**	25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Phenanthrene	**84**		25	6.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1
Pyrene	**42**		25	5.0	ug/Kg	☼	08/13/21 10:00	08/14/21 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*	*08/13/21 10:00*	*08/14/21 02:44*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/13/21 10:00*	*08/14/21 02:44*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/13/21 10:00*	*08/14/21 02:44*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**920**		2.1	0.83	mg/Kg	☼	08/12/21 13:44	08/13/21 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**33.9**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 2045-P3 (3)

Lab Sample ID: 410-50879-7

Date Collected: 08/10/21 12:25
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 71.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.82	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
1,2-Dichloroethane	ND	^c	10	1.2	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
Toluene	**2.0**	**J**	10	1.2	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
Xylenes, Total	ND		20	2.9	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
Methyl tertiary butyl ether	ND	^c	10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
Benzene	**7.5**	**J**	10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
Naphthalene	ND	^c	10	4.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
1,2,4-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
Isopropylbenzene	ND		10	0.82	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1
1,2-Dibromoethane	ND		10	0.82	ug/Kg	☼	08/12/21 11:20	08/15/21 20:10	1

Client Sample ID: 2045-P3 (3)

Lab Sample ID: 410-50879-7

Date Collected: 08/10/21 12:25
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 71.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/12/21 11:20*	*08/15/21 20:10*	*1*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/12/21 11:20*	*08/15/21 20:10*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/12/21 11:20*	*08/15/21 20:10*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/12/21 11:20*	*08/15/21 20:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Benzo[a]anthracene	**5.6**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Benzo[a]pyrene	**7.5**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Benzo[b]fluoranthene	**5.7**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Benzo[g,h,i]perylene	**5.9**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Chrysene	**9.3**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Fluorene	ND		23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Phenanthrene	**28**		23	5.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1
Pyrene	ND		23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*	*08/13/21 10:00*	*08/14/21 03:07*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/13/21 10:00*	*08/14/21 03:07*	*1*
p-Terphenyl-d14 (Surr)	*75*		*45 - 108*	*08/13/21 10:00*	*08/14/21 03:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		1.4	0.57	mg/Kg	☼	08/12/21 07:35	08/16/21 20:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.4**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 2045-P1 (3)

Lab Sample ID: 410-50879-8

Date Collected: 08/10/21 12:35
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 72.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**0.73**	**J**	7.5	0.60	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
1,2-Dichloroethane	ND	^c	7.5	0.90	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
1,3,5-Trimethylbenzene	ND		7.5	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
Toluene	**1.2**	**J**	7.5	0.90	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
Xylenes, Total	**2.7**	**J**	15	2.1	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
Methyl tertiary butyl ether	ND	^c	7.5	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
Benzene	**11**		7.5	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
Naphthalene	ND	^c	7.5	3.0	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
1,2,4-Trimethylbenzene	ND		7.5	0.75	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
Isopropylbenzene	ND		7.5	0.60	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1
1,2-Dibromoethane	ND		7.5	0.60	ug/Kg	☼	08/12/21 11:20	08/15/21 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/12/21 11:20*	*08/15/21 21:40*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/12/21 11:20*	*08/15/21 21:40*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/12/21 11:20*	*08/15/21 21:40*	*1*

Client Sample ID: 2045-P1 (3)

Lab Sample ID: 410-50879-8

Date Collected: 08/10/21 12:35
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 72.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/12/21 11:20*	*08/15/21 21:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**18**	**J**	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Benzo[a]anthracene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Benzo[a]pyrene	**4.5**	**J**	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Benzo[b]fluoranthene	**5.3**	**J**	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Benzo[g,h,i]perylene	**8.9**	**J**	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Chrysene	**5.3**	**J**	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Fluorene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Phenanthrene	**23**		23	5.4	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1
Pyrene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*	*08/13/21 10:00*	*08/14/21 03:29*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 10:00*	*08/14/21 03:29*	*1*
p-Terphenyl-d14 (Surr)	*67*		*45 - 108*	*08/13/21 10:00*	*08/14/21 03:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**100**		1.8	0.71	mg/Kg	☼	08/12/21 07:35	08/16/21 20:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.3**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 34 (2)

Lab Sample ID: 410-50879-9

Date Collected: 08/10/21 12:55
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 77.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**100**	**J**	1000	83	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
1,2-Dichloroethane	ND		1000	120	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
1,3,5-Trimethylbenzene	**610**	**J**	1000	100	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
Toluene	ND		1000	120	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
Xylenes, Total	**750**	**J**	2100	290	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
Methyl tertiary butyl ether	ND		1000	100	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
Benzene	ND		1000	100	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
Naphthalene	ND		1000	410	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
1,2,4-Trimethylbenzene	**1000**		1000	100	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
Isopropylbenzene	ND		1000	83	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100
1,2-Dibromoethane	ND		1000	83	ug/Kg	☼	08/12/21 11:19	08/16/21 18:03	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*54 - 135*	*08/12/21 11:19*	*08/16/21 18:03*	*100*
4-Bromofluorobenzene (Surr)	*82*		*50 - 131*	*08/12/21 11:19*	*08/16/21 18:03*	*100*
Dibromofluoromethane (Surr)	*88*		*50 - 141*	*08/12/21 11:19*	*08/16/21 18:03*	*100*
Toluene-d8 (Surr)	*83*		*52 - 141*	*08/12/21 11:19*	*08/16/21 18:03*	*100*

Client Sample ID: Pipe 34 (2)

Lab Sample ID: 410-50879-9

Date Collected: 08/10/21 12:55
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 77.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	100		21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Benzo[a]anthracene	12	J	21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Benzo[a]pyrene	16	J	21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Benzo[b]fluoranthene	14	J	21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Benzo[g,h,i]perylene	130		21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Chrysene	17	J	21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Fluorene	26		21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Phenanthrene	27		21	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1
Pyrene	36		21	4.3	ug/Kg	☼	08/13/21 10:00	08/14/21 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*39 - 100*	*08/13/21 10:00*	*08/14/21 03:52*	*1*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*	*08/13/21 10:00*	*08/14/21 03:52*	*1*
p-Terphenyl-d14 (Surr)	*74*		*45 - 108*	*08/13/21 10:00*	*08/14/21 03:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	79		1.7	0.67	mg/Kg	☼	08/12/21 07:35	08/16/21 20:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.2		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 35 (2)

Lab Sample ID: 410-50879-10

Date Collected: 08/10/21 13:10
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 72.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
1,2-Dichloroethane	1.4	J ^c	11	1.3	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
1,3,5-Trimethylbenzene	3.6	J	11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
Toluene	4.8	J	11	1.3	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
Xylenes, Total	3.5	J	22	3.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
Methyl tertiary butyl ether	ND	^c	11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
Benzene	7.4	J	11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
Naphthalene	ND	^c	11	4.4	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
1,2,4-Trimethylbenzene	5.8	J	11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
Isopropylbenzene	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1
1,2-Dibromoethane	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/12/21 11:20*	*08/15/21 22:48*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*08/12/21 11:20*	*08/15/21 22:48*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/12/21 11:20*	*08/15/21 22:48*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/12/21 11:20*	*08/15/21 22:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	9.0	J	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Benzo[a]anthracene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1

Client Sample ID: Pipe 35 (2)

Lab Sample ID: 410-50879-10

Date Collected: 08/10/21 13:10

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 72.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**6.1**	**J**	23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Benzo[b]fluoranthene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Benzo[g,h,i]perylene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Chrysene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Fluorene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Phenanthrene	**32**		23	5.4	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1
Pyrene	ND		23	4.5	ug/Kg	☼	08/13/21 10:00	08/14/21 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*39 - 100*	*08/13/21 10:00*	*08/14/21 04:14*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*08/13/21 10:00*	*08/14/21 04:14*	*1*
p-Terphenyl-d14 (Surr)	*71*		*45 - 108*	*08/13/21 10:00*	*08/14/21 04:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**17**		1.4	0.57	mg/Kg	☼	08/12/21 07:35	08/16/21 20:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.3**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 36 (2)

Lab Sample ID: 410-50879-11

Date Collected: 08/10/21 13:45

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 69.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.81	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
1,2-Dichloroethane	ND	^c	10	1.2	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
Toluene	ND		10	1.2	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
Xylenes, Total	ND		20	2.8	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
Methyl tertiary butyl ether	ND	^c	10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
Benzene	**1.8**	**J**	10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
Naphthalene	ND	^c	10	4.1	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
1,2,4-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
Isopropylbenzene	ND		10	0.81	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1
1,2-Dibromoethane	ND		10	0.81	ug/Kg	☼	08/12/21 11:20	08/15/21 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*54 - 135*	*08/12/21 11:20*	*08/15/21 23:11*	*1*
4-Bromofluorobenzene (Surr)	*80*		*50 - 131*	*08/12/21 11:20*	*08/15/21 23:11*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/12/21 11:20*	*08/15/21 23:11*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/12/21 11:20*	*08/15/21 23:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**9.3**	**J**	24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Benzo[a]anthracene	**5.5**	**J**	24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Benzo[a]pyrene	ND		24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Benzo[b]fluoranthene	**5.6**	**J**	24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1

Client Sample ID: Pipe 36 (2)

Lab Sample ID: 410-50879-11

Date Collected: 08/10/21 13:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 69.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Chrysene	ND		24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Fluorene	ND		24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Phenanthrene	**25**		24	5.7	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1
Pyrene	ND		24	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*39 - 100*	*08/13/21 10:00*	*08/14/21 04:37*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 10:00*	*08/14/21 04:37*	*1*
p-Terphenyl-d14 (Surr)	*77*		*45 - 108*	*08/13/21 10:00*	*08/14/21 04:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**26**		1.7	0.68	mg/Kg	☼	08/12/21 07:35	08/16/21 20:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.8**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 37 (2)

Lab Sample ID: 410-50879-12

Date Collected: 08/10/21 13:55
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 53.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
1,2-Dichloroethane	ND	^c	11	1.3	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
1,3,5-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
Toluene	ND		11	1.3	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
Xylenes, Total	ND		22	3.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
Methyl tertiary butyl ether	ND	^c	11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
Benzene	ND		11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
Naphthalene	ND	^c	11	4.4	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
1,2,4-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
Isopropylbenzene	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1
1,2-Dibromoethane	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*54 - 135*	*08/12/21 11:20*	*08/15/21 20:32*	*1*
4-Bromofluorobenzene (Surr)	*85*		*50 - 131*	*08/12/21 11:20*	*08/15/21 20:32*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/15/21 20:32*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/12/21 11:20*	*08/15/21 20:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Benzo[a]anthracene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Benzo[a]pyrene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Benzo[b]fluoranthene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Benzo[g,h,i]perylene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Chrysene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1

Client Sample ID: Pipe 37 (2)

Lab Sample ID: 410-50879-12

Date Collected: 08/10/21 13:55
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 53.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Phenanthrene	ND		31	7.4	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1
Pyrene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*39 - 100*	*08/13/21 10:00*	*08/14/21 05:00*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/13/21 10:00*	*08/14/21 05:00*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/13/21 10:00*	*08/14/21 05:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**30**		2.3	0.91	mg/Kg	☼	08/12/21 07:35	08/16/21 21:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**46.4**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 38 (2)

Lab Sample ID: 410-50879-13

Date Collected: 08/10/21 14:05
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 53.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		800	64	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
1,2-Dichloroethane	ND		800	96	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
1,3,5-Trimethylbenzene	ND		800	80	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
Toluene	ND		800	96	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
Xylenes, Total	ND		1600	220	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
Methyl tertiary butyl ether	ND		800	80	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
Benzene	ND		800	80	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
Naphthalene	ND		800	320	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
1,2,4-Trimethylbenzene	ND		800	80	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
Isopropylbenzene	ND		800	64	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50
1,2-Dibromoethane	ND		800	64	ug/Kg	☼	08/12/21 11:19	08/16/21 18:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*58*		*54 - 135*	*08/12/21 11:19*	*08/16/21 18:23*	*50*
4-Bromofluorobenzene (Surr)	*73*		*50 - 131*	*08/12/21 11:19*	*08/16/21 18:23*	*50*
Dibromofluoromethane (Surr)	*47*	*S1-*	*50 - 141*	*08/12/21 11:19*	*08/16/21 18:23*	*50*
Toluene-d8 (Surr)	*42*	*S1-*	*52 - 141*	*08/12/21 11:19*	*08/16/21 18:23*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**21**	**J**	31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Benzo[a]anthracene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Benzo[a]pyrene	**15**	**J**	31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Benzo[b]fluoranthene	**22**	**J**	31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Benzo[g,h,i]perylene	**20**	**J**	31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Chrysene	**24**	**J**	31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Fluorene	ND		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1
Phenanthrene	**29**	**J**	31	7.4	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1

Client Sample ID: Pipe 38 (2)

Lab Sample ID: 410-50879-13

Date Collected: 08/10/21 14:05
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 53.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**33**		31	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*39 - 100*	*08/13/21 10:00*	*08/14/21 05:22*	*1*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*	*08/13/21 10:00*	*08/14/21 05:22*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*	*08/13/21 10:00*	*08/14/21 05:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**170**		1.9	0.78	mg/Kg	☼	08/12/21 07:35	08/16/21 20:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**46.2**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 39 (2)

Lab Sample ID: 410-50879-14

Date Collected: 08/10/21 14:20
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 59.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
1,2-Dichloroethane	ND	^c	11	1.3	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
1,3,5-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
Toluene	ND		11	1.3	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
Xylenes, Total	ND		22	3.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
Methyl tertiary butyl ether	ND	^c	11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
Benzene	ND		11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
Naphthalene	ND	^c	11	4.4	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
1,2,4-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
Isopropylbenzene	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1
1,2-Dibromoethane	ND		11	0.88	ug/Kg	☼	08/12/21 11:20	08/15/21 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*54 - 135*	*08/12/21 11:20*	*08/15/21 20:55*	*1*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/12/21 11:20*	*08/15/21 20:55*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/15/21 20:55*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/12/21 11:20*	*08/15/21 20:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**14**	**J**	28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Benzo[a]anthracene	ND		28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Benzo[a]pyrene	ND		28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Benzo[b]fluoranthene	ND		28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Benzo[g,h,i]perylene	**11**	**J**	28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Chrysene	ND		28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Fluorene	ND		28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Phenanthrene	**7.7**	**J**	28	6.6	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1
Pyrene	ND		28	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 05:45	1

Client Sample ID: Pipe 39 (2)

Lab Sample ID: 410-50879-14

Date Collected: 08/10/21 14:20

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 59.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*39 - 100*	*08/13/21 10:00*	*08/14/21 05:45*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/13/21 10:00*	*08/14/21 05:45*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/13/21 10:00*	*08/14/21 05:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**64**		2.1	0.85	mg/Kg	☼	08/12/21 07:35	08/16/21 20:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**40.4**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 40 (2)

Lab Sample ID: 410-50879-15

Date Collected: 08/10/21 14:35

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 66.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**63**	**J**	710	57	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
1,2-Dichloroethane	ND		710	85	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
1,3,5-Trimethylbenzene	ND		710	71	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
Toluene	**160**	**J**	710	85	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
Xylenes, Total	**210**	**J**	1400	200	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
Methyl tertiary butyl ether	ND		710	71	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
Benzene	ND		710	71	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
Naphthalene	ND		710	280	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
1,2,4-Trimethylbenzene	ND		710	71	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
Isopropylbenzene	ND		710	57	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50
1,2-Dibromoethane	ND		710	57	ug/Kg	☼	08/12/21 11:19	08/17/21 11:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*	*08/12/21 11:19*	*08/17/21 11:41*	*50*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/12/21 11:19*	*08/17/21 11:41*	*50*
Dibromofluoromethane (Surr)	*95*		*50 - 141*	*08/12/21 11:19*	*08/17/21 11:41*	*50*
Toluene-d8 (Surr)	*93*		*52 - 141*	*08/12/21 11:19*	*08/17/21 11:41*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Benzo[a]anthracene	**16**	**J**	25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Benzo[a]pyrene	**9.4**	**J**	25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Benzo[b]fluoranthene	**16**	**J**	25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Benzo[g,h,i]perylene	**16**	**J**	25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Chrysene	**25**		25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Fluorene	**87**		25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Phenanthrene	**150**		25	5.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1
Pyrene	**120**		25	4.9	ug/Kg	☼	08/13/21 10:00	08/14/21 06:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*39 - 100*	*08/13/21 10:00*	*08/14/21 06:07*	*1*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*	*08/13/21 10:00*	*08/14/21 06:07*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/13/21 10:00*	*08/14/21 06:07*	*1*

Client Sample ID: Pipe 40 (2)

Lab Sample ID: 410-50879-15
Date Collected: 08/10/21 14:35
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 66.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**28**		1.9	0.74	mg/Kg	☼	08/12/21 07:35	08/16/21 21:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**33.1**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 2040-P2 (3)

Lab Sample ID: 410-50879-16
Date Collected: 08/11/21 08:25
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 71.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.1	0.57	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
1,2-Dichloroethane	ND		7.1	0.86	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
1,3,5-Trimethylbenzene	ND		7.1	0.71	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
Toluene	**0.95**	**J**	7.1	0.86	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
Xylenes, Total	ND		14	2.0	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
Methyl tertiary butyl ether	ND		7.1	0.71	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
Benzene	**1.3**	**J**	7.1	0.71	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
Naphthalene	ND		7.1	2.9	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
1,2,4-Trimethylbenzene	ND		7.1	0.71	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
Isopropylbenzene	ND		7.1	0.57	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1
1,2-Dibromoethane	ND		7.1	0.57	ug/Kg	☼	08/12/21 11:20	08/16/21 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*08/12/21 11:20*	*08/16/21 17:11*	*1*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*	*08/12/21 11:20*	*08/16/21 17:11*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/16/21 17:11*	*1*
Toluene-d8 (Surr)	*108*		*52 - 141*	*08/12/21 11:20*	*08/16/21 17:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Benzo[a]anthracene	**7.1**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Benzo[a]pyrene	**8.6**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Benzo[b]fluoranthene	**8.9**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Benzo[g,h,i]perylene	**8.5**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Chrysene	**8.1**	**J**	23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Fluorene	ND		23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Phenanthrene	**6.0**	**J**	23	5.5	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1
Pyrene	ND		23	4.6	ug/Kg	☼	08/13/21 10:00	08/14/21 06:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*39 - 100*	*08/13/21 10:00*	*08/14/21 06:30*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/13/21 10:00*	*08/14/21 06:30*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*08/13/21 10:00*	*08/14/21 06:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1200**		1.9	0.75	mg/Kg	☼	08/12/21 07:35	08/16/21 20:23	1

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: 2040-P2 (3)

Date Collected: 08/11/21 08:25
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-16

Matrix: Solid
Percent Solids: 71.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.8		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 2040-P3 (3)

Date Collected: 08/11/21 08:35
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-17

Matrix: Solid
Percent Solids: 83.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.2	0.42	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
1,2-Dichloroethane	ND		5.2	0.62	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
1,3,5-Trimethylbenzene	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
Toluene	ND		5.2	0.62	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
Xylenes, Total	ND		10	1.5	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
Methyl tertiary butyl ether	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
Benzene	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
Naphthalene	ND		5.2	2.1	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
1,2,4-Trimethylbenzene	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
Isopropylbenzene	ND		5.2	0.42	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1
1,2-Dibromoethane	ND		5.2	0.42	ug/Kg	☼	08/12/21 11:20	08/16/21 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*08/12/21 11:20*	*08/16/21 18:20*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/12/21 11:20*	*08/16/21 18:20*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*08/12/21 11:20*	*08/16/21 18:20*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/12/21 11:20*	*08/16/21 18:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	14	J	20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Benzo[a]anthracene	40		20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Benzo[a]pyrene	33		20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Benzo[b]fluoranthene	49		20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Benzo[g,h,i]perylene	28		20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Chrysene	46		20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Fluorene	6.2	J	20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Phenanthrene	66		20	4.8	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1
Pyrene	70		20	4.0	ug/Kg	☼	08/13/21 10:00	08/14/21 06:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*39 - 100*	*08/13/21 10:00*	*08/14/21 06:52*	*1*
Nitrobenzene-d5 (Surr)	*56*		*32 - 97*	*08/13/21 10:00*	*08/14/21 06:52*	*1*
p-Terphenyl-d14 (Surr)	*60*		*45 - 108*	*08/13/21 10:00*	*08/14/21 06:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		1.3	0.52	mg/Kg	☼	08/12/21 07:35	08/16/21 20:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.5		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 2040-P4 (3)

Lab Sample ID: 410-50879-18

Date Collected: 08/11/21 08:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 84.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.1	0.41	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
1,2-Dichloroethane	ND		5.1	0.61	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
1,3,5-Trimethylbenzene	ND		5.1	0.51	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
Toluene	ND		5.1	0.61	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
Xylenes, Total	ND		10	1.4	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
Methyl tertiary butyl ether	ND		5.1	0.51	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
Benzene	ND		5.1	0.51	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
Naphthalene	ND		5.1	2.0	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
1,2,4-Trimethylbenzene	ND		5.1	0.51	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
Isopropylbenzene	ND		5.1	0.41	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1
1,2-Dibromoethane	ND		5.1	0.41	ug/Kg	☼	08/12/21 11:20	08/16/21 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/12/21 11:20*	*08/16/21 18:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/12/21 11:20*	*08/16/21 18:43*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/16/21 18:43*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/12/21 11:20*	*08/16/21 18:43*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**4.7**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Benzo[a]anthracene	**16**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Benzo[a]pyrene	**16**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Benzo[b]fluoranthene	**22**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Benzo[g,h,i]perylene	**16**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Chrysene	**27**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Fluorene	ND		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Phenanthrene	**55**		20	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1
Pyrene	**22**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*39 - 100*	*08/13/21 10:00*	*08/14/21 07:15*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*08/13/21 10:00*	*08/14/21 07:15*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*08/13/21 10:00*	*08/14/21 07:15*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**40**		1.2	0.50	mg/Kg	☼	08/12/21 13:44	08/13/21 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.0**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: 2040-P5 (3)

Lab Sample ID: 410-50879-19

Date Collected: 08/11/21 09:10
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 85.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.4	0.76	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
1,2-Dichloroethane	ND		9.4	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1

Client Sample ID: 2040-P5 (3)

Lab Sample ID: 410-50879-19

Date Collected: 08/11/21 09:10
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 85.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND	*3	9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
Toluene	**5.1**	**J**	9.4	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
Xylenes, Total	ND		19	2.6	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
Methyl tertiary butyl ether	ND		9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
Benzene	**4.5**	**J**	9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
Naphthalene	ND	*3	9.4	3.8	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
1,2,4-Trimethylbenzene	ND	*3	9.4	0.94	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
Isopropylbenzene	ND		9.4	0.76	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1
1,2-Dibromoethane	ND		9.4	0.76	ug/Kg	☼	08/12/21 11:20	08/16/21 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/12/21 11:20*	*08/16/21 21:48*	*1*
4-Bromofluorobenzene (Surr)	*74*		*50 - 131*	*08/12/21 11:20*	*08/16/21 21:48*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*08/12/21 11:20*	*08/16/21 21:48*	*1*
Toluene-d8 (Surr)	*121*		*52 - 141*	*08/12/21 11:20*	*08/16/21 21:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**22**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Benzo[a]anthracene	**26**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Benzo[a]pyrene	**16**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Benzo[b]fluoranthene	**36**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Benzo[g,h,i]perylene	**19**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Chrysene	**120**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Fluorene	**16**	**J**	20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Phenanthrene	**120**		20	4.7	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1
Pyrene	**41**		20	3.9	ug/Kg	☼	08/13/21 10:00	08/14/21 07:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*	*08/13/21 10:00*	*08/14/21 07:38*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*08/13/21 10:00*	*08/14/21 07:38*	*1*
p-Terphenyl-d14 (Surr)	*77*		*45 - 108*	*08/13/21 10:00*	*08/14/21 07:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**21**		1.3	0.54	mg/Kg	☼	08/12/21 07:35	08/16/21 20:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.0**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 31 (2)

Lab Sample ID: 410-50879-20

Date Collected: 08/11/21 09:25
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 52.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
1,2-Dichloroethane	ND		9.9	1.2	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
1,3,5-Trimethylbenzene	ND		9.9	0.99	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
Toluene	ND		9.9	1.2	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1

Client Sample ID: Pipe 31 (2)

Lab Sample ID: 410-50879-20

Date Collected: 08/11/21 09:25
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 52.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		20	2.8	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
Methyl tertiary butyl ether	ND		9.9	0.99	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
Benzene	ND		9.9	0.99	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
Naphthalene	ND		9.9	4.0	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
1,2,4-Trimethylbenzene	ND		9.9	0.99	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
Isopropylbenzene	ND		9.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1
1,2-Dibromoethane	ND		9.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*08/12/21 11:20*	*08/16/21 16:02*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*	*08/12/21 11:20*	*08/16/21 16:02*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 141*	*08/12/21 11:20*	*08/16/21 16:02*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/12/21 11:20*	*08/16/21 16:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**14**	**J**	32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Benzo[a]anthracene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Benzo[a]pyrene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Benzo[b]fluoranthene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Benzo[g,h,i]perylene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Chrysene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Fluorene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Phenanthrene	**7.6**	**J**	32	7.6	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1
Pyrene	ND		32	6.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*39 - 100*	*08/13/21 09:45*	*08/16/21 11:19*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 09:45*	*08/16/21 11:19*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/13/21 09:45*	*08/16/21 11:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**31**		2.0	0.80	mg/Kg	☼	08/12/21 13:44	08/13/21 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**47.9**		1.0	1.0	%			08/12/21 08:13	1

Client Sample ID: Pipe 26 (2)

Lab Sample ID: 410-50879-21

Date Collected: 08/11/21 09:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 74.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.9	0.63	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
1,2-Dichloroethane	ND		7.9	0.95	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
1,3,5-Trimethylbenzene	ND		7.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
Toluene	ND		7.9	0.95	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
Xylenes, Total	ND		16	2.2	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
Methyl tertiary butyl ether	ND		7.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1

Client Sample ID: Pipe 26 (2)

Lab Sample ID: 410-50879-21

Date Collected: 08/11/21 09:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 74.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		7.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
Naphthalene	ND		7.9	3.2	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
1,2,4-Trimethylbenzene	ND		7.9	0.79	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
Isopropylbenzene	ND		7.9	0.63	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1
1,2-Dibromoethane	ND		7.9	0.63	ug/Kg	☼	08/12/21 11:20	08/16/21 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/12/21 11:20*	*08/16/21 16:25*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*08/12/21 11:20*	*08/16/21 16:25*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/16/21 16:25*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/12/21 11:20*	*08/16/21 16:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**17**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Benzo[a]anthracene	**12**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Benzo[a]pyrene	**8.9**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Benzo[b]fluoranthene	**13**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Benzo[g,h,i]perylene	**12**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Chrysene	**13**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Fluorene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Phenanthrene	**26**		22	5.3	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1
Pyrene	**20**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*08/13/21 09:45*	*08/16/21 11:41*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/13/21 09:45*	*08/16/21 11:41*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*08/13/21 09:45*	*08/16/21 11:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**32**	**F2**	1.8	0.71	mg/Kg	☼	08/12/21 07:35	08/16/21 19:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.7**		1.0	1.0	%			08/12/21 09:02	1

Client Sample ID: 4847-P4 (3)

Lab Sample ID: 410-50879-22

Date Collected: 08/11/21 11:00
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 76.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.2	0.41	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
1,2-Dichloroethane	ND		5.2	0.62	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
1,3,5-Trimethylbenzene	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
Toluene	ND		5.2	0.62	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
Xylenes, Total	ND		10	1.4	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
Methyl tertiary butyl ether	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
Benzene	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
Naphthalene	ND		5.2	2.1	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1

Client Sample ID: 4847-P4 (3)

Date Collected: 08/11/21 11:00
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-22

Matrix: Solid
Percent Solids: 76.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		5.2	0.52	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
Isopropylbenzene	ND		5.2	0.41	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1
1,2-Dibromoethane	ND		5.2	0.41	ug/Kg	☼	08/12/21 11:20	08/16/21 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/12/21 11:20*	*08/16/21 19:06*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/12/21 11:20*	*08/16/21 19:06*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/12/21 11:20*	*08/16/21 19:06*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/12/21 11:20*	*08/16/21 19:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Benzo[a]anthracene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Benzo[a]pyrene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Benzo[b]fluoranthene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Benzo[g,h,i]perylene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Chrysene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Fluorene	ND		22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Phenanthrene	ND		22	5.2	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1
Pyrene	**5.1**	**J**	22	4.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/13/21 09:45*	*08/16/21 12:03*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*08/13/21 09:45*	*08/16/21 12:03*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*08/13/21 09:45*	*08/16/21 12:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**3.6**		1.4	0.56	mg/Kg	☼	08/12/21 07:35	08/16/21 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.9**		1.0	1.0	%			08/12/21 09:02	1

Client Sample ID: 2040-P1 (3)

Date Collected: 08/11/21 11:30
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-23

Matrix: Solid
Percent Solids: 71.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.6	0.68	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
1,2-Dichloroethane	ND		8.6	1.0	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
1,3,5-Trimethylbenzene	ND		8.6	0.86	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
Toluene	ND		8.6	1.0	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
Xylenes, Total	ND		17	2.4	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
Methyl tertiary butyl ether	ND		8.6	0.86	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
Benzene	ND		8.6	0.86	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
Naphthalene	ND		8.6	3.4	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
1,2,4-Trimethylbenzene	ND		8.6	0.86	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1
Isopropylbenzene	ND		8.6	0.68	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1

Client Sample ID: 2040-P1 (3)

Lab Sample ID: 410-50879-23

Date Collected: 08/11/21 11:30
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 71.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		8.6	0.68	ug/Kg	☼	08/12/21 11:20	08/16/21 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*	*08/12/21 11:20*	*08/16/21 17:34*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/12/21 11:20*	*08/16/21 17:34*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*	*08/12/21 11:20*	*08/16/21 17:34*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/12/21 11:20*	*08/16/21 17:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**11**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Benzo[a]anthracene	**5.8**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Benzo[a]pyrene	**5.6**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Benzo[b]fluoranthene	**7.9**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Benzo[g,h,i]perylene	**8.3**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Chrysene	**7.5**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Fluorene	ND		23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Phenanthrene	**26**		23	5.6	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1
Pyrene	**7.9**	**J**	23	4.7	ug/Kg	☼	08/13/21 09:45	08/16/21 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*39 - 100*	*08/13/21 09:45*	*08/16/21 12:26*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*08/13/21 09:45*	*08/16/21 12:26*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/13/21 09:45*	*08/16/21 12:26*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**250**		1.7	0.68	mg/Kg	☼	08/12/21 07:35	08/16/21 20:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.5**		1.0	1.0	%			08/12/21 09:02	1

Client Sample ID: Pipe 28 (2)

Lab Sample ID: 410-50879-24

Date Collected: 08/11/21 11:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 73.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.3	0.74	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
1,2-Dichloroethane	ND		9.3	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
1,3,5-Trimethylbenzene	ND		9.3	0.93	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
Toluene	**2.8**	**J**	9.3	1.1	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
Xylenes, Total	ND		19	2.6	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
Methyl tertiary butyl ether	ND		9.3	0.93	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
Benzene	**1.4**	**J**	9.3	0.93	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
Naphthalene	ND		9.3	3.7	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
1,2,4-Trimethylbenzene	ND		9.3	0.93	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
Isopropylbenzene	ND		9.3	0.74	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1
1,2-Dibromoethane	ND		9.3	0.74	ug/Kg	☼	08/12/21 11:20	08/16/21 19:30	1

Client Sample ID: Pipe 28 (2)

Lab Sample ID: 410-50879-24

Date Collected: 08/11/21 11:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 73.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*54 - 135*	*08/12/21 11:20*	*08/16/21 19:30*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*08/12/21 11:20*	*08/16/21 19:30*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/12/21 11:20*	*08/16/21 19:30*	*1*
Toluene-d8 (Surr)	*104*		*52 - 141*	*08/12/21 11:20*	*08/16/21 19:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Benzo[a]anthracene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Benzo[a]pyrene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Benzo[b]fluoranthene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Benzo[g,h,i]perylene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Chrysene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Fluorene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Phenanthrene	ND		22	5.4	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1
Pyrene	ND		22	4.5	ug/Kg	☼	08/13/21 09:45	08/16/21 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*39 - 100*	*08/13/21 09:45*	*08/16/21 12:48*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/13/21 09:45*	*08/16/21 12:48*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/13/21 09:45*	*08/16/21 12:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		1.7	0.67	mg/Kg	☼	08/12/21 13:44	08/13/21 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.2		1.0	1.0	%			08/12/21 09:02	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-50879-25

Date Collected: 08/11/21 00:00
Matrix: Water
Date Received: 08/11/21 17:52

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/13/21 11:00	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/13/21 11:00	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/13/21 11:00	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/13/21 11:00	1
Toluene	ND		1.0	0.30	ug/L			08/13/21 11:00	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/13/21 11:00	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/13/21 11:00	1
Benzene	ND		1.0	0.30	ug/L			08/13/21 11:00	1
Naphthalene	ND		5.0	1.0	ug/L			08/13/21 11:00	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/13/21 11:00	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/13/21 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*08/13/21 11:00*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/13/21 11:00*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/13/21 11:00*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 410-50879-25

Date Collected: 08/11/21 00:00

Matrix: Water

Date Received: 08/11/21 17:52

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/13/21 11:00*	*1*

Client Sample ID: Dup-06

Lab Sample ID: 410-50879-26

Date Collected: 08/10/21 00:00

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 64.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		590	48	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
1,2-Dichloroethane	ND		590	71	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
1,3,5-Trimethylbenzene	ND		590	59	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
Toluene	ND		590	71	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
Xylenes, Total	ND		1200	170	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
Methyl tertiary butyl ether	ND		590	59	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
Benzene	ND		590	59	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
Naphthalene	ND		590	240	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
1,2,4-Trimethylbenzene	ND		590	59	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
Isopropylbenzene	ND		590	48	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50
1,2-Dibromoethane	ND		590	48	ug/Kg	☼	08/12/21 11:19	08/16/21 18:44	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*	*08/12/21 11:19*	*08/16/21 18:44*	*50*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/12/21 11:19*	*08/16/21 18:44*	*50*
Dibromofluoromethane (Surr)	*96*		*50 - 141*	*08/12/21 11:19*	*08/16/21 18:44*	*50*
Toluene-d8 (Surr)	*92*		*52 - 141*	*08/12/21 11:19*	*08/16/21 18:44*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Benzo[a]anthracene	**24**	**J**	26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Benzo[a]pyrene	**14**	**J**	26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Benzo[b]fluoranthene	**26**		26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Benzo[g,h,i]perylene	**17**	**J**	26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Chrysene	**39**		26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Fluorene	**100**		26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Phenanthrene	**160**		26	6.2	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1
Pyrene	**100**		26	5.1	ug/Kg	☼	08/13/21 10:00	08/14/21 08:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*69*		*39 - 100*	*08/13/21 10:00*	*08/14/21 08:00*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/13/21 10:00*	*08/14/21 08:00*	*1*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*	*08/13/21 10:00*	*08/14/21 08:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**20**		1.7	0.69	mg/Kg	☼	08/12/21 07:35	08/16/21 20:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**35.8**		1.0	1.0	%			08/12/21 09:02	1

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-50879-1	941-P3 (3)	112	83	102	100
410-50879-2	941-P4 (3)	86	81	83	81
410-50879-3	941-P5 (3)	108	88	104	108
410-50879-4	941-P1 (3)	112	93	103	100
410-50879-5	Pipe-32 (2)	114	79	102	97
410-50879-6	Pipe 33 (2)	111	94	102	99
410-50879-7	2045-P3 (3)	112	82	103	93
410-50879-8	2045-P1 (3)	113	86	103	93
410-50879-9	Pipe 34 (2)	92	82	88	83
410-50879-10	Pipe 35 (2)	113	89	106	95
410-50879-11	Pipe 36 (2)	115	80	105	97
410-50879-12	Pipe 37 (2)	117	85	104	93
410-50879-13	Pipe 38 (2)	58	73	47 S1-	42 S1-
410-50879-14	Pipe 39 (2)	118	81	104	92
410-50879-15	Pipe 40 (2)	100	87	95	93
410-50879-16	2040-P2 (3)	107	83	104	108
410-50879-17	2040-P3 (3)	104	91	103	98
410-50879-18	2040-P4 (3)	113	93	104	98
410-50879-19	2040-P5 (3)	114	74	109	121
410-50879-20	Pipe 31 (2)	104	90	101	98
410-50879-21	Pipe 26 (2)	113	94	104	99
410-50879-22	4847-P4 (3)	113	95	104	97
410-50879-23	2040-P1 (3)	108	87	102	102
410-50879-24	Pipe 28 (2)	109	87	106	104
410-50879-26	Dup-06	101	91	96	92
LCS 410-160576/5	Lab Control Sample	103	94	95	99
LCS 410-160689/4	Lab Control Sample	101	87	100	92
LCS 410-160723/5	Lab Control Sample	103	98	100	101
LCS 410-161178/4	Lab Control Sample	100	87	98	92
LCSD 410-160576/6	Lab Control Sample Dup	103	93	97	98
LCSD 410-160689/5	Lab Control Sample Dup	103	88	101	92
LCSD 410-160723/6	Lab Control Sample Dup	100	96	99	101
LCSD 410-161178/5	Lab Control Sample Dup	102	86	99	93
MB 410-160576/10	Method Blank	108	86	102	93
MB 410-160689/9	Method Blank	101	83	98	89
MB 410-160723/8	Method Blank	104	95	100	99
MB 410-161178/7	Method Blank	101	84	98	90

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Job ID: 410-50879-1
Project/Site: PBF Logistics

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-50879-25	Trip Blank	96	104	99	93
LCS 410-160096/4	Lab Control Sample	97	105	101	94
LCSD 410-160096/5	Lab Control Sample Dup	97	103	100	93
MB 410-160096/6	Method Blank	97	104	100	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-50879-1	941-P3 (3)	72	64	70
410-50879-1 MS	941-P3 (3)	70	61	72
410-50879-1 MSD	941-P3 (3)	45	41	32 S1-
410-50879-2	941-P4 (3)	73	63	74
410-50879-3	941-P5 (3)	73	63	76
410-50879-4	941-P1 (3)	80	71	85
410-50879-5	Pipe-32 (2)	71	64	70
410-50879-6	Pipe 33 (2)	77	66	80
410-50879-7	2045-P3 (3)	73	63	75
410-50879-8	2045-P1 (3)	72	64	67
410-50879-9	Pipe 34 (2)	67	60	74
410-50879-10	Pipe 35 (2)	72	63	71
410-50879-11	Pipe 36 (2)	76	64	77
410-50879-12	Pipe 37 (2)	78	67	87
410-50879-13	Pipe 38 (2)	71	61	78
410-50879-14	Pipe 39 (2)	78	65	85
410-50879-15	Pipe 40 (2)	62	60	76
410-50879-16	2040-P2 (3)	76	65	87
410-50879-17	2040-P3 (3)	65	56	60
410-50879-18	2040-P4 (3)	78	68	83
410-50879-19	2040-P5 (3)	77	68	77
410-50879-20	Pipe 31 (2)	76	64	85
410-50879-21	Pipe 26 (2)	79	67	79
410-50879-22	4847-P4 (3)	81	67	84
410-50879-23	2040-P1 (3)	78	64	85
410-50879-24	Pipe 28 (2)	76	65	80
410-50879-26	Dup-06	69	65	78
LCS 410-160042/2-A	Lab Control Sample	76	65	77
LCS 410-160044/2-A	Lab Control Sample	87	75	93
MB 410-160042/1-A	Method Blank	74	63	80
MB 410-160044/1-A	Method Blank	88	74	98

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-160576/10
Matrix: Solid
Analysis Batch: 160576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/15/21 16:04	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/15/21 16:04	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/15/21 16:04	1
Toluene	ND		5.0	0.60	ug/Kg			08/15/21 16:04	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/15/21 16:04	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/15/21 16:04	1
Benzene	ND		5.0	0.50	ug/Kg			08/15/21 16:04	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/15/21 16:04	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/15/21 16:04	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/15/21 16:04	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/15/21 16:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*		*08/15/21 16:04*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*		*08/15/21 16:04*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*		*08/15/21 16:04*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*		*08/15/21 16:04*	*1*

Lab Sample ID: LCS 410-160576/5
Matrix: Solid
Analysis Batch: 160576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	18.8		ug/Kg		94	78 - 120		
1,2-Dichloroethane			20.0	16.0		ug/Kg		80	71 - 128		
1,3,5-Trimethylbenzene			20.0	18.0		ug/Kg		90	73 - 120		
Toluene			20.0	17.5		ug/Kg		88	80 - 120		
Xylenes, Total			60.0	51.9		ug/Kg		87	75 - 120		
Methyl tertiary butyl ether			20.0	15.1		ug/Kg		75	72 - 120		
Benzene			20.0	19.3		ug/Kg		97	80 - 120		
Naphthalene			20.0	13.5		ug/Kg		68	48 - 130		
1,2,4-Trimethylbenzene			20.0	17.7		ug/Kg		88	73 - 120		
Isopropylbenzene			20.0	16.8		ug/Kg		84	77 - 120		
1,2-Dibromoethane			20.0	16.7		ug/Kg		84	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*99*		*52 - 141*

Lab Sample ID: LCSD 410-160576/6
Matrix: Solid
Analysis Batch: 160576

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	19.4		ug/Kg		97	78 - 120	3	30
1,2-Dichloroethane			20.0	16.3		ug/Kg		81	71 - 128	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-160576/6
Matrix: Solid
Analysis Batch: 160576

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	18.5		ug/Kg		93	73 - 120	3	30
Toluene			20.0	18.3		ug/Kg		91	80 - 120	4	30
Xylenes, Total			60.0	53.5		ug/Kg		89	75 - 120	3	30
Methyl tertiary butyl ether			20.0	15.8		ug/Kg		79	72 - 120	5	30
Benzene			20.0	20.5		ug/Kg		102	80 - 120	6	30
Naphthalene			20.0	14.1		ug/Kg		70	48 - 130	4	30
1,2,4-Trimethylbenzene			20.0	18.6		ug/Kg		93	73 - 120	5	30
Isopropylbenzene			20.0	17.2		ug/Kg		86	77 - 120	3	30
1,2-Dibromoethane			20.0	17.3		ug/Kg		86	76 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: MB 410-160689/9
Matrix: Solid
Analysis Batch: 160689

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/16/21 11:45	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/16/21 11:45	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/16/21 11:45	50
Toluene	ND		250	30	ug/Kg			08/16/21 11:45	50
Xylenes, Total	ND		500	70	ug/Kg			08/16/21 11:45	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/16/21 11:45	50
Benzene	ND		250	25	ug/Kg			08/16/21 11:45	50
Naphthalene	ND		250	100	ug/Kg			08/16/21 11:45	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/16/21 11:45	50
Isopropylbenzene	ND		250	20	ug/Kg			08/16/21 11:45	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/16/21 11:45	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*		*08/16/21 11:45*	*50*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*		*08/16/21 11:45*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*08/16/21 11:45*	*50*
Toluene-d8 (Surr)	*89*		*52 - 141*		*08/16/21 11:45*	*50*

Lab Sample ID: LCS 410-160689/4
Matrix: Solid
Analysis Batch: 160689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	936		ug/Kg		94	78 - 120
1,2-Dichloroethane			1000	976		ug/Kg		98	71 - 128
1,3,5-Trimethylbenzene			1000	860		ug/Kg		86	73 - 120
Toluene			1000	960		ug/Kg		96	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-160689/4
Matrix: Solid
Analysis Batch: 160689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	3000	2920		ug/Kg		97	75 - 120
Methyl tertiary butyl ether	1000	997		ug/Kg		100	72 - 120
Benzene	1000	1000		ug/Kg		100	80 - 120
Naphthalene	1000	901		ug/Kg		90	48 - 130
1,2,4-Trimethylbenzene	1000	856		ug/Kg		86	73 - 120
Isopropylbenzene	1000	966		ug/Kg		97	77 - 120
1,2-Dibromoethane	1000	982		ug/Kg		98	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: LCSD 410-160689/5
Matrix: Solid
Analysis Batch: 160689

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	1000	948		ug/Kg		95	78 - 120	1	30
1,2-Dichloroethane	1000	975		ug/Kg		97	71 - 128	0	30
1,3,5-Trimethylbenzene	1000	866		ug/Kg		87	73 - 120	1	30
Toluene	1000	963		ug/Kg		96	80 - 120	0	30
Xylenes, Total	3000	2930		ug/Kg		98	75 - 120	1	30
Methyl tertiary butyl ether	1000	995		ug/Kg		99	72 - 120	0	30
Benzene	1000	1020		ug/Kg		102	80 - 120	2	30
Naphthalene	1000	902		ug/Kg		90	48 - 130	0	30
1,2,4-Trimethylbenzene	1000	864		ug/Kg		86	73 - 120	1	30
Isopropylbenzene	1000	972		ug/Kg		97	77 - 120	1	30
1,2-Dibromoethane	1000	981		ug/Kg		98	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: MB 410-160723/8
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/16/21 14:05	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/16/21 14:05	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Toluene	ND		5.0	0.60	ug/Kg			08/16/21 14:05	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/16/21 14:05	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-160723/8
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/16/21 14:05	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/16/21 14:05	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/16/21 14:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*08/16/21 14:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*		*08/16/21 14:05*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*		*08/16/21 14:05*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*		*08/16/21 14:05*	*1*

Lab Sample ID: LCS 410-160723/5
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	17.5		ug/Kg		87	78 - 120		
1,2-Dichloroethane			20.0	18.6		ug/Kg		93	71 - 128		
1,3,5-Trimethylbenzene			20.0	17.3		ug/Kg		87	73 - 120		
Toluene			20.0	17.6		ug/Kg		88	80 - 120		
Xylenes, Total			60.0	52.7		ug/Kg		88	75 - 120		
Methyl tertiary butyl ether			20.0	20.5		ug/Kg		102	72 - 120		
Benzene			20.0	18.4		ug/Kg		92	80 - 120		
Naphthalene			20.0	18.2		ug/Kg		91	48 - 130		
1,2,4-Trimethylbenzene			20.0	17.6		ug/Kg		88	73 - 120		
Isopropylbenzene			20.0	17.3		ug/Kg		86	77 - 120		
1,2-Dibromoethane			20.0	19.1		ug/Kg		96	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: LCSD 410-160723/6
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	17.7		ug/Kg		89	78 - 120	1	30
1,2-Dichloroethane			20.0	18.2		ug/Kg		91	71 - 128	2	30
1,3,5-Trimethylbenzene			20.0	17.7		ug/Kg		88	73 - 120	2	30
Toluene			20.0	17.7		ug/Kg		89	80 - 120	1	30
Xylenes, Total			60.0	53.3		ug/Kg		89	75 - 120	1	30
Methyl tertiary butyl ether			20.0	19.6		ug/Kg		98	72 - 120	4	30
Benzene			20.0	18.3		ug/Kg		92	80 - 120	1	30
Naphthalene			20.0	17.0		ug/Kg		85	48 - 130	6	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-160723/6
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		90	73 - 120	2	30
Isopropylbenzene			20.0	17.4		ug/Kg		87	77 - 120	1	30
1,2-Dibromoethane			20.0	18.6		ug/Kg		93	76 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: MB 410-161178/7
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/17/21 10:51	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/17/21 10:51	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/17/21 10:51	50
Toluene	ND		250	30	ug/Kg			08/17/21 10:51	50
Xylenes, Total	ND		500	70	ug/Kg			08/17/21 10:51	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/17/21 10:51	50
Benzene	ND		250	25	ug/Kg			08/17/21 10:51	50
Naphthalene	ND		250	100	ug/Kg			08/17/21 10:51	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/17/21 10:51	50
Isopropylbenzene	ND		250	20	ug/Kg			08/17/21 10:51	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/17/21 10:51	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*		*08/17/21 10:51*	*50*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*		*08/17/21 10:51*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*08/17/21 10:51*	*50*
Toluene-d8 (Surr)	*90*		*52 - 141*		*08/17/21 10:51*	*50*

Lab Sample ID: LCS 410-161178/4
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	949		ug/Kg		95	78 - 120		
1,2-Dichloroethane			1000	950		ug/Kg		95	71 - 128		
1,3,5-Trimethylbenzene			1000	871		ug/Kg		87	73 - 120		
Toluene			1000	974		ug/Kg		97	80 - 120		
Xylenes, Total			3000	2960		ug/Kg		99	75 - 120		
Methyl tertiary butyl ether			1000	988		ug/Kg		99	72 - 120		
Benzene			1000	1000		ug/Kg		100	80 - 120		
Naphthalene			1000	922		ug/Kg		92	48 - 130		
1,2,4-Trimethylbenzene			1000	871		ug/Kg		87	73 - 120		
Isopropylbenzene			1000	980		ug/Kg		98	77 - 120		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-161178/4
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			1000	993		ug/Kg		99	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*98*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: LCSD 410-161178/5
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	960		ug/Kg		96	78 - 120	1	30
1,2-Dichloroethane			1000	926		ug/Kg		93	71 - 128	3	30
1,3,5-Trimethylbenzene			1000	885		ug/Kg		89	73 - 120	2	30
Toluene			1000	970		ug/Kg		97	80 - 120	0	30
Xylenes, Total			3000	2940		ug/Kg		98	75 - 120	1	30
Methyl tertiary butyl ether			1000	1000		ug/Kg		100	72 - 120	1	30
Benzene			1000	1020		ug/Kg		102	80 - 120	2	30
Naphthalene			1000	930		ug/Kg		93	48 - 130	1	30
1,2,4-Trimethylbenzene			1000	873		ug/Kg		87	73 - 120	0	30
Isopropylbenzene			1000	985		ug/Kg		98	77 - 120	0	30
1,2-Dibromoethane			1000	992		ug/Kg		99	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*93*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-160096/6
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/13/21 10:12	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/13/21 10:12	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:12	1
Toluene	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/13/21 10:12	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/13/21 10:12	1
Benzene	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Naphthalene	ND		5.0	1.0	ug/L			08/13/21 10:12	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/13/21 10:12	1

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-160096/6
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/13/21 10:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/13/21 10:12*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/13/21 10:12*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/13/21 10:12*	*1*

Lab Sample ID: LCS 410-160096/4
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	20.0	16.2		ug/L		81	77 - 120
Ethylbenzene	20.0	16.8		ug/L		84	80 - 120
1,2-Dichloroethane	20.0	17.6		ug/L		88	73 - 124
1,3,5-Trimethylbenzene	20.0	15.8		ug/L		79	75 - 120
Toluene	20.0	16.4		ug/L		82	80 - 120
Xylenes, Total	60.0	49.9		ug/L		83	80 - 120
Methyl tertiary butyl ether	20.0	18.1		ug/L		90	69 - 122
Benzene	20.0	18.2		ug/L		91	80 - 120
Naphthalene	20.0	16.2		ug/L		81	53 - 124
1,2,4-Trimethylbenzene	20.0	15.6		ug/L		78	75 - 120
Isopropylbenzene	20.0	16.3		ug/L		81	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: LCSD 410-160096/5
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	20.0	18.4		ug/L		92	77 - 120	13	30
Ethylbenzene	20.0	18.9		ug/L		94	80 - 120	11	30
1,2-Dichloroethane	20.0	19.9		ug/L		99	73 - 124	12	30
1,3,5-Trimethylbenzene	20.0	17.6		ug/L		88	75 - 120	11	30
Toluene	20.0	18.5		ug/L		93	80 - 120	12	30
Xylenes, Total	60.0	55.7		ug/L		93	80 - 120	11	30
Methyl tertiary butyl ether	20.0	20.4		ug/L		102	69 - 122	12	30
Benzene	20.0	20.4		ug/L		102	80 - 120	11	30
Naphthalene	20.0	17.9		ug/L		89	53 - 124	10	30
1,2,4-Trimethylbenzene	20.0	17.7		ug/L		88	75 - 120	13	30
Isopropylbenzene	20.0	18.2		ug/L		91	80 - 120	11	30

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-160096/5
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	93		80 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-160042/1-A
Matrix: Solid
Analysis Batch: 160448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Chrysene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Fluorene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Phenanthrene	ND		17	4.0	ug/Kg		08/13/21 10:00	08/13/21 22:59	1
Pyrene	ND		17	3.3	ug/Kg		08/13/21 10:00	08/13/21 22:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		39 - 100	08/13/21 10:00	08/13/21 22:59	1
Nitrobenzene-d5 (Surr)	63		32 - 97	08/13/21 10:00	08/13/21 22:59	1
p-Terphenyl-d14 (Surr)	80		45 - 108	08/13/21 10:00	08/13/21 22:59	1

Lab Sample ID: LCS 410-160042/2-A
Matrix: Solid
Analysis Batch: 160448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1360		ug/Kg		82	75 - 120
Benzo[a]anthracene	1670	1330		ug/Kg		80	73 - 120
Benzo[a]pyrene	1670	1370		ug/Kg		82	80 - 123
Benzo[b]fluoranthene	1670	1210		ug/Kg		73	63 - 120
Benzo[g,h,i]perylene	1670	1370		ug/Kg		82	77 - 120
Chrysene	1670	1300		ug/Kg		78	66 - 120
Fluorene	1670	1370		ug/Kg		82	68 - 120
Phenanthrene	1670	1330		ug/Kg		80	74 - 120
Pyrene	1670	1300		ug/Kg		78	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	76		39 - 100
Nitrobenzene-d5 (Surr)	65		32 - 97
p-Terphenyl-d14 (Surr)	77		45 - 108

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-50879-1 MS
Matrix: Solid
Analysis Batch: 160448

Client Sample ID: 941-P3 (3)
Prep Type: Total/NA
Prep Batch: 160042

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	ND	F2 FL	2210	1630	FL	ug/Kg	☼	74	75 - 120
Benzo[a]anthracene	4.7	J F2 FL	2210	1570	FL	ug/Kg	☼	71	73 - 120
Benzo[a]pyrene	ND	F2 FL	2210	1450	FL	ug/Kg	☼	65	80 - 123
Benzo[b]fluoranthene	6.4	J F2 FL	2210	1360	FL	ug/Kg	☼	61	63 - 120
Benzo[g,h,i]perylene	ND	F2 FL	2210	1390	FL	ug/Kg	☼	63	77 - 120
Chrysene	8.5	J F2 FL	2210	1540		ug/Kg	☼	69	66 - 120
Fluorene	ND	F2 FL	2210	1660		ug/Kg	☼	75	68 - 120
Phenanthrene	27	F2 FL	2210	1640	FL	ug/Kg	☼	73	74 - 120
Pyrene	12	J F2 FL	2210	1540	FL	ug/Kg	☼	69	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*70*		*39 - 100*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*
p-Terphenyl-d14 (Surr)	*72*		*45 - 108*

Lab Sample ID: 410-50879-1 MSD
Matrix: Solid
Analysis Batch: 160448

Client Sample ID: 941-P3 (3)
Prep Type: Total/NA
Prep Batch: 160042

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	ND	F2 FL	2210	630	F2 FL	ug/Kg	☼	29	75 - 120	88	30
Benzo[a]anthracene	4.7	J F2 FL	2210	677	F2 FL	ug/Kg	☼	30	73 - 120	79	30
Benzo[a]pyrene	ND	F2 FL	2210	640	F2 FL	ug/Kg	☼	29	80 - 123	77	30
Benzo[b]fluoranthene	6.4	J F2 FL	2210	578	F2 FL	ug/Kg	☼	26	63 - 120	81	30
Benzo[g,h,i]perylene	ND	F2 FL	2210	597	F2 FL	ug/Kg	☼	27	77 - 120	80	30
Chrysene	8.5	J F2 FL	2210	646	F2 FL	ug/Kg	☼	29	66 - 120	82	30
Fluorene	ND	F2 FL	2210	840	F2 FL	ug/Kg	☼	38	68 - 120	66	30
Phenanthrene	27	F2 FL	2210	646	F2 FL	ug/Kg	☼	28	74 - 120	87	30
Pyrene	12	J F2 FL	2210	579	F2 FL	ug/Kg	☼	26	70 - 120	91	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*45*		*39 - 100*
Nitrobenzene-d5 (Surr)	*41*		*32 - 97*
p-Terphenyl-d14 (Surr)	*32*	*S1-*	*45 - 108*

Lab Sample ID: MB 410-160044/1-A
Matrix: Solid
Analysis Batch: 160678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Chrysene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Fluorene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1
Phenanthrene	ND		17	4.0	ug/Kg		08/13/21 09:45	08/16/21 09:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-160044/1-A
Matrix: Solid
Analysis Batch: 160678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		17	3.3	ug/Kg		08/13/21 09:45	08/16/21 09:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*39 - 100*	*08/13/21 09:45*	*08/16/21 09:49*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*08/13/21 09:45*	*08/16/21 09:49*	*1*
p-Terphenyl-d14 (Surr)	*98*		*45 - 108*	*08/13/21 09:45*	*08/16/21 09:49*	*1*

Lab Sample ID: LCS 410-160044/2-A
Matrix: Solid
Analysis Batch: 160678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1600		ug/Kg		96	75 - 120
Benzo[a]anthracene	1670	1550		ug/Kg		93	73 - 120
Benzo[a]pyrene	1670	1660		ug/Kg		99	80 - 123
Benzo[b]fluoranthene	1670	1470		ug/Kg		88	63 - 120
Benzo[g,h,i]perylene	1670	1600		ug/Kg		96	77 - 120
Chrysene	1670	1540		ug/Kg		92	66 - 120
Fluorene	1670	1580		ug/Kg		95	68 - 120
Phenanthrene	1670	1540		ug/Kg		92	74 - 120
Pyrene	1670	1530		ug/Kg		92	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*
p-Terphenyl-d14 (Surr)	*93*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-159527/1-A
Matrix: Solid
Analysis Batch: 161056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/12/21 07:35	08/16/21 19:27	1

Lab Sample ID: LCS 410-159527/2-A
Matrix: Solid
Analysis Batch: 161056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.12		mg/Kg		102	80 - 120

Lab Sample ID: 410-50879-21 MS
Matrix: Solid
Analysis Batch: 161056

Client Sample ID: Pipe 26 (2)
Prep Type: Total/NA
Prep Batch: 159527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	32	F2	4.74	30.8	4	mg/Kg	☼	-16	75 - 125

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Method: 6010C - Metals (ICP)

Lab Sample ID: 410-50879-21 MSD
Matrix: Solid
Analysis Batch: 161056

Client Sample ID: Pipe 26 (2)
Prep Type: Total/NA
Prep Batch: 159527

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	32	F2	5.80	51.1	4 F2	mg/Kg	☼	337	75 - 125	50	20

Lab Sample ID: 410-50879-21 DU
Matrix: Solid
Analysis Batch: 161056

Client Sample ID: Pipe 26 (2)
Prep Type: Total/NA
Prep Batch: 159527

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	32	F2	65.2	F3	mg/Kg	☼	70	20

Lab Sample ID: MB 410-159761/1-A
Matrix: Solid
Analysis Batch: 160209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159761

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/12/21 13:44	08/13/21 08:31	1

Lab Sample ID: LCS 410-159761/2-A
Matrix: Solid
Analysis Batch: 160209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.20		mg/Kg		104	80 - 120

GC/MS VOA

Prep Batch: 159682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-2	941-P4 (3)	Total/NA	Solid	5035	
410-50879-9	Pipe 34 (2)	Total/NA	Solid	5035	
410-50879-13 - RA	Pipe 38 (2)	Total/NA	Solid	5035	
410-50879-13	Pipe 38 (2)	Total/NA	Solid	5035	
410-50879-15	Pipe 40 (2)	Total/NA	Solid	5035	
410-50879-26	Dup-06	Total/NA	Solid	5035	

Prep Batch: 159683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	5035	
410-50879-3	941-P5 (3)	Total/NA	Solid	5035	
410-50879-4	941-P1 (3)	Total/NA	Solid	5035	
410-50879-5	Pipe-32 (2)	Total/NA	Solid	5035	
410-50879-6	Pipe 33 (2)	Total/NA	Solid	5035	
410-50879-7	2045-P3 (3)	Total/NA	Solid	5035	
410-50879-8	2045-P1 (3)	Total/NA	Solid	5035	
410-50879-10	Pipe 35 (2)	Total/NA	Solid	5035	
410-50879-11	Pipe 36 (2)	Total/NA	Solid	5035	
410-50879-12	Pipe 37 (2)	Total/NA	Solid	5035	
410-50879-14	Pipe 39 (2)	Total/NA	Solid	5035	
410-50879-16	2040-P2 (3)	Total/NA	Solid	5035	
410-50879-17	2040-P3 (3)	Total/NA	Solid	5035	
410-50879-18	2040-P4 (3)	Total/NA	Solid	5035	
410-50879-19 - RA	2040-P5 (3)	Total/NA	Solid	5035	
410-50879-19	2040-P5 (3)	Total/NA	Solid	5035	
410-50879-20	Pipe 31 (2)	Total/NA	Solid	5035	
410-50879-21	Pipe 26 (2)	Total/NA	Solid	5035	
410-50879-22	4847-P4 (3)	Total/NA	Solid	5035	
410-50879-23	2040-P1 (3)	Total/NA	Solid	5035	
410-50879-24	Pipe 28 (2)	Total/NA	Solid	5035	

Analysis Batch: 160096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-25	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-160096/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-160096/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-160096/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Analysis Batch: 160576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	8260C	159683
410-50879-5	Pipe-32 (2)	Total/NA	Solid	8260C	159683
410-50879-7	2045-P3 (3)	Total/NA	Solid	8260C	159683
410-50879-8	2045-P1 (3)	Total/NA	Solid	8260C	159683
410-50879-10	Pipe 35 (2)	Total/NA	Solid	8260C	159683
410-50879-11	Pipe 36 (2)	Total/NA	Solid	8260C	159683
410-50879-12	Pipe 37 (2)	Total/NA	Solid	8260C	159683
410-50879-14	Pipe 39 (2)	Total/NA	Solid	8260C	159683
MB 410-160576/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-160576/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160576/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS VOA

Analysis Batch: 160689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-2	941-P4 (3)	Total/NA	Solid	8260C	159682
410-50879-9	Pipe 34 (2)	Total/NA	Solid	8260C	159682
410-50879-13	Pipe 38 (2)	Total/NA	Solid	8260C	159682
410-50879-26	Dup-06	Total/NA	Solid	8260C	159682
MB 410-160689/9	Method Blank	Total/NA	Solid	8260C	
LCS 410-160689/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160689/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 160723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-3	941-P5 (3)	Total/NA	Solid	8260C	159683
410-50879-4	941-P1 (3)	Total/NA	Solid	8260C	159683
410-50879-6	Pipe 33 (2)	Total/NA	Solid	8260C	159683
410-50879-16	2040-P2 (3)	Total/NA	Solid	8260C	159683
410-50879-17	2040-P3 (3)	Total/NA	Solid	8260C	159683
410-50879-18	2040-P4 (3)	Total/NA	Solid	8260C	159683
410-50879-19	2040-P5 (3)	Total/NA	Solid	8260C	159683
410-50879-20	Pipe 31 (2)	Total/NA	Solid	8260C	159683
410-50879-21	Pipe 26 (2)	Total/NA	Solid	8260C	159683
410-50879-22	4847-P4 (3)	Total/NA	Solid	8260C	159683
410-50879-23	2040-P1 (3)	Total/NA	Solid	8260C	159683
410-50879-24	Pipe 28 (2)	Total/NA	Solid	8260C	159683
MB 410-160723/8	Method Blank	Total/NA	Solid	8260C	
LCS 410-160723/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160723/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 161178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-13 - RA	Pipe 38 (2)	Total/NA	Solid	8260C	159682
410-50879-15	Pipe 40 (2)	Total/NA	Solid	8260C	159682
MB 410-161178/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-161178/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-161178/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 161192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-19 - RA	2040-P5 (3)	Total/NA	Solid	8260C	159683
MB 410-161192/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-161192/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-161192/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 160042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	3546	
410-50879-2	941-P4 (3)	Total/NA	Solid	3546	
410-50879-3	941-P5 (3)	Total/NA	Solid	3546	
410-50879-4	941-P1 (3)	Total/NA	Solid	3546	
410-50879-5	Pipe-32 (2)	Total/NA	Solid	3546	
410-50879-6	Pipe 33 (2)	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 160042 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-7	2045-P3 (3)	Total/NA	Solid	3546	
410-50879-8	2045-P1 (3)	Total/NA	Solid	3546	
410-50879-9	Pipe 34 (2)	Total/NA	Solid	3546	
410-50879-10	Pipe 35 (2)	Total/NA	Solid	3546	
410-50879-11	Pipe 36 (2)	Total/NA	Solid	3546	
410-50879-12	Pipe 37 (2)	Total/NA	Solid	3546	
410-50879-13	Pipe 38 (2)	Total/NA	Solid	3546	
410-50879-14	Pipe 39 (2)	Total/NA	Solid	3546	
410-50879-15	Pipe 40 (2)	Total/NA	Solid	3546	
410-50879-16	2040-P2 (3)	Total/NA	Solid	3546	
410-50879-17	2040-P3 (3)	Total/NA	Solid	3546	
410-50879-18	2040-P4 (3)	Total/NA	Solid	3546	
410-50879-19	2040-P5 (3)	Total/NA	Solid	3546	
410-50879-26	Dup-06	Total/NA	Solid	3546	
MB 410-160042/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-160042/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-50879-1 MS	941-P3 (3)	Total/NA	Solid	3546	
410-50879-1 MSD	941-P3 (3)	Total/NA	Solid	3546	

Prep Batch: 160044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-20	Pipe 31 (2)	Total/NA	Solid	3546	
410-50879-21	Pipe 26 (2)	Total/NA	Solid	3546	
410-50879-22	4847-P4 (3)	Total/NA	Solid	3546	
410-50879-23	2040-P1 (3)	Total/NA	Solid	3546	
410-50879-24	Pipe 28 (2)	Total/NA	Solid	3546	
MB 410-160044/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-160044/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 160448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	8270D	160042
410-50879-2	941-P4 (3)	Total/NA	Solid	8270D	160042
410-50879-3	941-P5 (3)	Total/NA	Solid	8270D	160042
410-50879-4	941-P1 (3)	Total/NA	Solid	8270D	160042
410-50879-5	Pipe-32 (2)	Total/NA	Solid	8270D	160042
410-50879-6	Pipe 33 (2)	Total/NA	Solid	8270D	160042
410-50879-7	2045-P3 (3)	Total/NA	Solid	8270D	160042
410-50879-8	2045-P1 (3)	Total/NA	Solid	8270D	160042
410-50879-9	Pipe 34 (2)	Total/NA	Solid	8270D	160042
410-50879-10	Pipe 35 (2)	Total/NA	Solid	8270D	160042
410-50879-11	Pipe 36 (2)	Total/NA	Solid	8270D	160042
410-50879-12	Pipe 37 (2)	Total/NA	Solid	8270D	160042
410-50879-13	Pipe 38 (2)	Total/NA	Solid	8270D	160042
410-50879-14	Pipe 39 (2)	Total/NA	Solid	8270D	160042
410-50879-15	Pipe 40 (2)	Total/NA	Solid	8270D	160042
410-50879-16	2040-P2 (3)	Total/NA	Solid	8270D	160042
410-50879-17	2040-P3 (3)	Total/NA	Solid	8270D	160042
410-50879-18	2040-P4 (3)	Total/NA	Solid	8270D	160042
410-50879-19	2040-P5 (3)	Total/NA	Solid	8270D	160042
410-50879-26	Dup-06	Total/NA	Solid	8270D	160042

GC/MS Semi VOA (Continued)

Analysis Batch: 160448 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-160042/1-A	Method Blank	Total/NA	Solid	8270D	160042
LCS 410-160042/2-A	Lab Control Sample	Total/NA	Solid	8270D	160042
410-50879-1 MS	941-P3 (3)	Total/NA	Solid	8270D	160042
410-50879-1 MSD	941-P3 (3)	Total/NA	Solid	8270D	160042

Analysis Batch: 160678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-20	Pipe 31 (2)	Total/NA	Solid	8270D	160044
410-50879-21	Pipe 26 (2)	Total/NA	Solid	8270D	160044
410-50879-22	4847-P4 (3)	Total/NA	Solid	8270D	160044
410-50879-23	2040-P1 (3)	Total/NA	Solid	8270D	160044
410-50879-24	Pipe 28 (2)	Total/NA	Solid	8270D	160044
MB 410-160044/1-A	Method Blank	Total/NA	Solid	8270D	160044
LCS 410-160044/2-A	Lab Control Sample	Total/NA	Solid	8270D	160044

Metals

Prep Batch: 159527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-2	941-P4 (3)	Total/NA	Solid	3050B	
410-50879-3	941-P5 (3)	Total/NA	Solid	3050B	
410-50879-4	941-P1 (3)	Total/NA	Solid	3050B	
410-50879-5	Pipe-32 (2)	Total/NA	Solid	3050B	
410-50879-7	2045-P3 (3)	Total/NA	Solid	3050B	
410-50879-8	2045-P1 (3)	Total/NA	Solid	3050B	
410-50879-9	Pipe 34 (2)	Total/NA	Solid	3050B	
410-50879-10	Pipe 35 (2)	Total/NA	Solid	3050B	
410-50879-11	Pipe 36 (2)	Total/NA	Solid	3050B	
410-50879-12	Pipe 37 (2)	Total/NA	Solid	3050B	
410-50879-13	Pipe 38 (2)	Total/NA	Solid	3050B	
410-50879-14	Pipe 39 (2)	Total/NA	Solid	3050B	
410-50879-15	Pipe 40 (2)	Total/NA	Solid	3050B	
410-50879-16	2040-P2 (3)	Total/NA	Solid	3050B	
410-50879-17	2040-P3 (3)	Total/NA	Solid	3050B	
410-50879-19	2040-P5 (3)	Total/NA	Solid	3050B	
410-50879-21	Pipe 26 (2)	Total/NA	Solid	3050B	
410-50879-22	4847-P4 (3)	Total/NA	Solid	3050B	
410-50879-23	2040-P1 (3)	Total/NA	Solid	3050B	
410-50879-26	Dup-06	Total/NA	Solid	3050B	
MB 410-159527/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-159527/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-50879-21 MS	Pipe 26 (2)	Total/NA	Solid	3050B	
410-50879-21 MSD	Pipe 26 (2)	Total/NA	Solid	3050B	
410-50879-21 DU	Pipe 26 (2)	Total/NA	Solid	3050B	

Prep Batch: 159761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	3050B	
410-50879-6	Pipe 33 (2)	Total/NA	Solid	3050B	
410-50879-18	2040-P4 (3)	Total/NA	Solid	3050B	
410-50879-20	Pipe 31 (2)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 159761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-24	Pipe 28 (2)	Total/NA	Solid	3050B	
MB 410-159761/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-159761/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 160209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	6010C	159761
410-50879-6	Pipe 33 (2)	Total/NA	Solid	6010C	159761
410-50879-18	2040-P4 (3)	Total/NA	Solid	6010C	159761
410-50879-20	Pipe 31 (2)	Total/NA	Solid	6010C	159761
410-50879-24	Pipe 28 (2)	Total/NA	Solid	6010C	159761
MB 410-159761/1-A	Method Blank	Total/NA	Solid	6010C	159761
LCS 410-159761/2-A	Lab Control Sample	Total/NA	Solid	6010C	159761

Analysis Batch: 161056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-2	941-P4 (3)	Total/NA	Solid	6010C	159527
410-50879-3	941-P5 (3)	Total/NA	Solid	6010C	159527
410-50879-4	941-P1 (3)	Total/NA	Solid	6010C	159527
410-50879-5	Pipe-32 (2)	Total/NA	Solid	6010C	159527
410-50879-7	2045-P3 (3)	Total/NA	Solid	6010C	159527
410-50879-8	2045-P1 (3)	Total/NA	Solid	6010C	159527
410-50879-9	Pipe 34 (2)	Total/NA	Solid	6010C	159527
410-50879-10	Pipe 35 (2)	Total/NA	Solid	6010C	159527
410-50879-11	Pipe 36 (2)	Total/NA	Solid	6010C	159527
410-50879-12	Pipe 37 (2)	Total/NA	Solid	6010C	159527
410-50879-13	Pipe 38 (2)	Total/NA	Solid	6010C	159527
410-50879-14	Pipe 39 (2)	Total/NA	Solid	6010C	159527
410-50879-15	Pipe 40 (2)	Total/NA	Solid	6010C	159527
410-50879-16	2040-P2 (3)	Total/NA	Solid	6010C	159527
410-50879-17	2040-P3 (3)	Total/NA	Solid	6010C	159527
410-50879-19	2040-P5 (3)	Total/NA	Solid	6010C	159527
410-50879-21	Pipe 26 (2)	Total/NA	Solid	6010C	159527
410-50879-22	4847-P4 (3)	Total/NA	Solid	6010C	159527
410-50879-23	2040-P1 (3)	Total/NA	Solid	6010C	159527
410-50879-26	Dup-06	Total/NA	Solid	6010C	159527
MB 410-159527/1-A	Method Blank	Total/NA	Solid	6010C	159527
LCS 410-159527/2-A	Lab Control Sample	Total/NA	Solid	6010C	159527
410-50879-21 MS	Pipe 26 (2)	Total/NA	Solid	6010C	159527
410-50879-21 MSD	Pipe 26 (2)	Total/NA	Solid	6010C	159527
410-50879-21 DU	Pipe 26 (2)	Total/NA	Solid	6010C	159527

General Chemistry

Analysis Batch: 159541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-1	941-P3 (3)	Total/NA	Solid	Moisture	
410-50879-2	941-P4 (3)	Total/NA	Solid	Moisture	
410-50879-3	941-P5 (3)	Total/NA	Solid	Moisture	
410-50879-4	941-P1 (3)	Total/NA	Solid	Moisture	
410-50879-5	Pipe-32 (2)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 159541 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-6	Pipe 33 (2)	Total/NA	Solid	Moisture	
410-50879-7	2045-P3 (3)	Total/NA	Solid	Moisture	
410-50879-8	2045-P1 (3)	Total/NA	Solid	Moisture	
410-50879-9	Pipe 34 (2)	Total/NA	Solid	Moisture	
410-50879-10	Pipe 35 (2)	Total/NA	Solid	Moisture	
410-50879-11	Pipe 36 (2)	Total/NA	Solid	Moisture	
410-50879-12	Pipe 37 (2)	Total/NA	Solid	Moisture	
410-50879-13	Pipe 38 (2)	Total/NA	Solid	Moisture	
410-50879-14	Pipe 39 (2)	Total/NA	Solid	Moisture	
410-50879-15	Pipe 40 (2)	Total/NA	Solid	Moisture	
410-50879-16	2040-P2 (3)	Total/NA	Solid	Moisture	
410-50879-17	2040-P3 (3)	Total/NA	Solid	Moisture	
410-50879-18	2040-P4 (3)	Total/NA	Solid	Moisture	
410-50879-19	2040-P5 (3)	Total/NA	Solid	Moisture	
410-50879-20	Pipe 31 (2)	Total/NA	Solid	Moisture	

Analysis Batch: 159588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-50879-21	Pipe 26 (2)	Total/NA	Solid	Moisture	
410-50879-22	4847-P4 (3)	Total/NA	Solid	Moisture	
410-50879-23	2040-P1 (3)	Total/NA	Solid	Moisture	
410-50879-24	Pipe 28 (2)	Total/NA	Solid	Moisture	
410-50879-26	Dup-06	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: 941-P3 (3)

Lab Sample ID: 410-50879-1

Date Collected: 08/10/21 11:10

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 941-P3 (3)

Lab Sample ID: 410-50879-1

Date Collected: 08/10/21 11:10

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 22:03	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 00:07	SJ89	ELLE
Total/NA	Prep	3050B			159761	08/12/21 13:44	UJLA	ELLE
Total/NA	Analysis	6010C		1	160209	08/13/21 10:09	WJM9	ELLE

Client Sample ID: 941-P4 (3)

Lab Sample ID: 410-50879-2

Date Collected: 08/10/21 11:20

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 941-P4 (3)

Lab Sample ID: 410-50879-2

Date Collected: 08/10/21 11:20

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159682	08/12/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		50	160689	08/16/21 17:42	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 01:14	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:46	XQY5	ELLE

Client Sample ID: 941-P5 (3)

Lab Sample ID: 410-50879-3

Date Collected: 08/10/21 11:30

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 941-P5 (3)

Lab Sample ID: 410-50879-3

Date Collected: 08/10/21 11:30

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 14:53	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 01:37	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 21:09	XQY5	ELLE

Client Sample ID: 941-P1 (3)

Lab Sample ID: 410-50879-4

Date Collected: 08/10/21 11:45

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 941-P1 (3)

Lab Sample ID: 410-50879-4

Date Collected: 08/10/21 11:45

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 15:15	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 02:00	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:04	XQY5	ELLE

Client Sample ID: Pipe-32 (2)

Lab Sample ID: 410-50879-5

Date Collected: 08/10/21 12:05

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe-32 (2)

Lab Sample ID: 410-50879-5

Date Collected: 08/10/21 12:05

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 70.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 23:56	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 02:22	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:08	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: Pipe 33 (2)

Lab Sample ID: 410-50879-6
Matrix: Solid
Date Collected: 08/10/21 12:15
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 33 (2)

Lab Sample ID: 410-50879-6
Matrix: Solid
Date Collected: 08/10/21 12:15
Date Received: 08/11/21 17:52
Percent Solids: 66.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 15:38	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 02:44	SJ89	ELLE
Total/NA	Prep	3050B			159761	08/12/21 13:44	UJLA	ELLE
Total/NA	Analysis	6010C		1	160209	08/13/21 09:57	WJM9	ELLE

Client Sample ID: 2045-P3 (3)

Lab Sample ID: 410-50879-7
Matrix: Solid
Date Collected: 08/10/21 12:25
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 2045-P3 (3)

Lab Sample ID: 410-50879-7
Matrix: Solid
Date Collected: 08/10/21 12:25
Date Received: 08/11/21 17:52
Percent Solids: 71.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 20:10	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 03:07	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:55	XQY5	ELLE

Client Sample ID: 2045-P1 (3)

Lab Sample ID: 410-50879-8
Matrix: Solid
Date Collected: 08/10/21 12:35
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: 2045-P1 (3)

Lab Sample ID: 410-50879-8

Date Collected: 08/10/21 12:35
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 21:40	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 03:29	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:01	XQY5	ELLE

Client Sample ID: Pipe 34 (2)

Lab Sample ID: 410-50879-9

Date Collected: 08/10/21 12:55
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 34 (2)

Lab Sample ID: 410-50879-9

Date Collected: 08/10/21 12:55
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159682	08/12/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		100	160689	08/16/21 18:03	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 03:52	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:36	XQY5	ELLE

Client Sample ID: Pipe 35 (2)

Lab Sample ID: 410-50879-10

Date Collected: 08/10/21 13:10
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 35 (2)

Lab Sample ID: 410-50879-10

Date Collected: 08/10/21 13:10
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 22:48	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 04:14	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:33	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: Pipe 36 (2)

Lab Sample ID: 410-50879-11

Date Collected: 08/10/21 13:45

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 36 (2)

Lab Sample ID: 410-50879-11

Date Collected: 08/10/21 13:45

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 69.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 23:11	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 04:37	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:17	XQY5	ELLE

Client Sample ID: Pipe 37 (2)

Lab Sample ID: 410-50879-12

Date Collected: 08/10/21 13:55

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 37 (2)

Lab Sample ID: 410-50879-12

Date Collected: 08/10/21 13:55

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 53.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 20:32	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 05:00	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 21:05	XQY5	ELLE

Client Sample ID: Pipe 38 (2)

Lab Sample ID: 410-50879-13

Date Collected: 08/10/21 14:05

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 38 (2)

Lab Sample ID: 410-50879-13

Date Collected: 08/10/21 14:05

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 53.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159682	08/12/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		50	160689	08/16/21 18:23	USEJ	ELLE
Total/NA	Prep	5035	RA		159682	08/12/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C	RA	50	161178	08/17/21 12:02	SWV2	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 05:22	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:58	XQY5	ELLE

Client Sample ID: Pipe 39 (2)

Lab Sample ID: 410-50879-14

Date Collected: 08/10/21 14:20

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 39 (2)

Lab Sample ID: 410-50879-14

Date Collected: 08/10/21 14:20

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 59.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160576	08/15/21 20:55	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 05:45	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:30	XQY5	ELLE

Client Sample ID: Pipe 40 (2)

Lab Sample ID: 410-50879-15

Date Collected: 08/10/21 14:35

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 40 (2)

Lab Sample ID: 410-50879-15

Date Collected: 08/10/21 14:35

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 66.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159682	08/12/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		50	161178	08/17/21 11:41	SWV2	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 06:07	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 21:02	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: 2040-P2 (3)

Lab Sample ID: 410-50879-16

Date Collected: 08/11/21 08:25
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 2040-P2 (3)

Lab Sample ID: 410-50879-16

Date Collected: 08/11/21 08:25
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 71.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 17:11	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 06:30	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:23	XQY5	ELLE

Client Sample ID: 2040-P3 (3)

Lab Sample ID: 410-50879-17

Date Collected: 08/11/21 08:35
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 2040-P3 (3)

Lab Sample ID: 410-50879-17

Date Collected: 08/11/21 08:35
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 18:20	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 06:52	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:42	XQY5	ELLE

Client Sample ID: 2040-P4 (3)

Lab Sample ID: 410-50879-18

Date Collected: 08/11/21 08:45
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 2040-P4 (3)

Lab Sample ID: 410-50879-18

Date Collected: 08/11/21 08:45

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 18:43	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 07:15	SJ89	ELLE
Total/NA	Prep	3050B			159761	08/12/21 13:44	UJLA	ELLE
Total/NA	Analysis	6010C		1	160209	08/13/21 10:00	WJM9	ELLE

Client Sample ID: 2040-P5 (3)

Lab Sample ID: 410-50879-19

Date Collected: 08/11/21 09:10

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: 2040-P5 (3)

Lab Sample ID: 410-50879-19

Date Collected: 08/11/21 09:10

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 21:48	USEJ	ELLE
Total/NA	Prep	5035	RA		159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	161192	08/17/21 14:35	UCB5	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 07:38	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:26	XQY5	ELLE

Client Sample ID: Pipe 31 (2)

Lab Sample ID: 410-50879-20

Date Collected: 08/11/21 09:25

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159541	08/12/21 08:13	UVJN	ELLE

Client Sample ID: Pipe 31 (2)

Lab Sample ID: 410-50879-20

Date Collected: 08/11/21 09:25

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 52.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 16:02	USEJ	ELLE
Total/NA	Prep	3546			160044	08/13/21 09:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 11:19	SJ89	ELLE
Total/NA	Prep	3050B			159761	08/12/21 13:44	UJLA	ELLE
Total/NA	Analysis	6010C		1	160209	08/13/21 10:06	WJM9	ELLE

Client Sample ID: Pipe 26 (2)

Lab Sample ID: 410-50879-21

Date Collected: 08/11/21 09:45

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159588	08/12/21 09:02	UVJN	ELLE

Client Sample ID: Pipe 26 (2)

Lab Sample ID: 410-50879-21

Date Collected: 08/11/21 09:45

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 16:25	USEJ	ELLE
Total/NA	Prep	3546			160044	08/13/21 09:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 11:41	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 19:39	XQY5	ELLE

Client Sample ID: 4847-P4 (3)

Lab Sample ID: 410-50879-22

Date Collected: 08/11/21 11:00

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159588	08/12/21 09:02	UVJN	ELLE

Client Sample ID: 4847-P4 (3)

Lab Sample ID: 410-50879-22

Date Collected: 08/11/21 11:00

Matrix: Solid

Date Received: 08/11/21 17:52

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 19:06	USEJ	ELLE
Total/NA	Prep	3546			160044	08/13/21 09:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 12:03	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 19:58	XQY5	ELLE

Client Sample ID: 2040-P1 (3)

Lab Sample ID: 410-50879-23

Date Collected: 08/11/21 11:30

Matrix: Solid

Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159588	08/12/21 09:02	UVJN	ELLE

Client Sample ID: 2040-P1 (3)

Lab Sample ID: 410-50879-23

Date Collected: 08/11/21 11:30
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 71.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 17:34	USEJ	ELLE
Total/NA	Prep	3546			160044	08/13/21 09:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 12:26	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:39	XQY5	ELLE

Client Sample ID: Pipe 28 (2)

Lab Sample ID: 410-50879-24

Date Collected: 08/11/21 11:45
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159588	08/12/21 09:02	UVJN	ELLE

Client Sample ID: Pipe 28 (2)

Lab Sample ID: 410-50879-24

Date Collected: 08/11/21 11:45
Matrix: Solid
Date Received: 08/11/21 17:52
Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159683	08/12/21 11:20	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 19:30	USEJ	ELLE
Total/NA	Prep	3546			160044	08/13/21 09:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 12:48	SJ89	ELLE
Total/NA	Prep	3050B			159761	08/12/21 13:44	UJLA	ELLE
Total/NA	Analysis	6010C		1	160209	08/13/21 10:03	WJM9	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-50879-25

Date Collected: 08/11/21 00:00
Matrix: Water
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	160096	08/13/21 11:00	UKAD	ELLE

Client Sample ID: Dup-06

Lab Sample ID: 410-50879-26

Date Collected: 08/10/21 00:00
Matrix: Solid
Date Received: 08/11/21 17:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	159588	08/12/21 09:02	UVJN	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Client Sample ID: Dup-06
Date Collected: 08/10/21 00:00
Date Received: 08/11/21 17:52

Lab Sample ID: 410-50879-26
Matrix: Solid
Percent Solids: 64.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159682	08/12/21 11:19	JJT8	ELLE
Total/NA	Analysis	8260C		50	160689	08/16/21 18:44	USEJ	ELLE
Total/NA	Prep	3546			160042	08/13/21 10:00	U9KU	ELLE
Total/NA	Analysis	8270D		1	160448	08/14/21 08:00	SJ89	ELLE
Total/NA	Prep	3050B			159527	08/12/21 07:35	UJLA	ELLE
Total/NA	Analysis	6010C		1	161056	08/16/21 20:20	XQY5	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-50879-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-50879-1	941-P3 (3)	Solid	08/10/21 11:10	08/11/21 17:52
410-50879-2	941-P4 (3)	Solid	08/10/21 11:20	08/11/21 17:52
410-50879-3	941-P5 (3)	Solid	08/10/21 11:30	08/11/21 17:52
410-50879-4	941-P1 (3)	Solid	08/10/21 11:45	08/11/21 17:52
410-50879-5	Pipe-32 (2)	Solid	08/10/21 12:05	08/11/21 17:52
410-50879-6	Pipe 33 (2)	Solid	08/10/21 12:15	08/11/21 17:52
410-50879-7	2045-P3 (3)	Solid	08/10/21 12:25	08/11/21 17:52
410-50879-8	2045-P1 (3)	Solid	08/10/21 12:35	08/11/21 17:52
410-50879-9	Pipe 34 (2)	Solid	08/10/21 12:55	08/11/21 17:52
410-50879-10	Pipe 35 (2)	Solid	08/10/21 13:10	08/11/21 17:52
410-50879-11	Pipe 36 (2)	Solid	08/10/21 13:45	08/11/21 17:52
410-50879-12	Pipe 37 (2)	Solid	08/10/21 13:55	08/11/21 17:52
410-50879-13	Pipe 38 (2)	Solid	08/10/21 14:05	08/11/21 17:52
410-50879-14	Pipe 39 (2)	Solid	08/10/21 14:20	08/11/21 17:52
410-50879-15	Pipe 40 (2)	Solid	08/10/21 14:35	08/11/21 17:52
410-50879-16	2040-P2 (3)	Solid	08/11/21 08:25	08/11/21 17:52
410-50879-17	2040-P3 (3)	Solid	08/11/21 08:35	08/11/21 17:52
410-50879-18	2040-P4 (3)	Solid	08/11/21 08:45	08/11/21 17:52
410-50879-19	2040-P5 (3)	Solid	08/11/21 09:10	08/11/21 17:52
410-50879-20	Pipe 31 (2)	Solid	08/11/21 09:25	08/11/21 17:52
410-50879-21	Pipe 26 (2)	Solid	08/11/21 09:45	08/11/21 17:52
410-50879-22	4847-P4 (3)	Solid	08/11/21 11:00	08/11/21 17:52
410-50879-23	2040-P1 (3)	Solid	08/11/21 11:30	08/11/21 17:52
410-50879-24	Pipe 28 (2)	Solid	08/11/21 11:45	08/11/21 17:52
410-50879-25	Trip Blank	Water	08/11/21 00:00	08/11/21 17:52
410-50879-26	Dup-06	Solid	08/10/21 00:00	08/11/21 17:52

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-50879 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: IA / DH	Lab PM: Carter, Amek A	COC No: 410-31049-9562 2
Client Contact: Mark Schaeffer	Phone:	E-Mail: Loran Carter@eurofinset.com	State of Origin: PA	Page: Page 2 of 8
Company: Stantec Consulting Corp.	PWSID:		Job #
Address: 1060 Andrew Drive Suite 140	Due Date Requested:		
City: West Chester	TAT Requested (days): 5 day		
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No		
Phone:	PO #: Purchase Order Requested		
Email: mark.schaeffer@stantec.com	WO #:		
Project Name: PBF Logistics	Project #: 41007459		
Site: 51st Street Terminal	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A		
941 - P3 (3)	8/10/21	1110	G	Solid			X	X			
941 - P4 (3)	8/10/21	1120	G	Solid			X	X			
941 - P5 (3)	8/10/21	1130	G	Solid			X	X			
941 - P1 (3)	8/10/21	1145	G	Solid			X	X			
Pipe 32 (2)	8/10/21	1205	G	Solid			X	X			
Pipe 33 (2)	8/10/21	1215	G	Solid			X	X			
2045 - P3 (3)	8/10/21	1225	G	Solid			X	X			
2045 - P1 (3)	8/10/21	1235	G	Solid			X	X			
Pipe 34 (2)	8/10/21	1255	G	Solid			X	X			
Pipe 35 (2)	8/10/21	1310	G	Solid			X	X			
Pipe 36 (2)	8/10/21	1345	G	Solid			X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/11/21 1150		[signature]	8-11-21 1150	
[signature]	8-11-21 1742				

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

8/17/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: IA/DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-31049-9562 3
Client Contact: Mark Schaeffer	Phone:	E-Mail: Loran Carter@eurofinset com	State of Origin: PA	Page: Page 3 of 8
Company: Stantec Consulting Corp	PWSID:			Job #
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: [redacted] 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS (Yes or No)	8260C - PA Combo of Loaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Loaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A		
Pipe 37 (2)	8/10/21	1355	G	Solid			X	X			
Pipe 38 (2)	8/10/21	1405	G	Solid			X	X			
Pipe 39 (2)	8/10/21	1420	G	Solid			X	X			
Pipe 40 (2)	8/10/21	1435	G	Solid			X	X			
2040 - P2 (3)	8/11/21	0825	G	Solid			X	X			
2040 - P3 (3)	8/11/21	0835	G	Solid			X	X			
2040 - P4 (3)	8/11/21	0845	G	Solid			X	X			
2040 - P5 (3)	8/11/21	0910	G	Solid			X	X			
Pipe 31 (2)	8/11/21	0925	G	Solid			X	X			
Pipe 26 (2)	8/11/21	0945	G	Solid			X	X			
4847 - P4 (3)	8/11/21	1100	G	Solid			X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/11/21 1150	Stantec	[signature]	8/11/21 1150	
2	[signature]	8-11-21 1742				
3				[signature]	8/11/21 1752	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

TK TK

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: TA/DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-31049-9562.4
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 4 of 8
Company: Stantec Consulting Corp	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Loaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Loaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	A	X	
2040-P1 (3)	8/11/21	1130	G	Solid			X	X			
Pipe 28 (2)	8/11/21	1145	G	Solid			X	X			
Trip Blank	8/11/21	—	G	Solid					X		
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	8/11/21 1150	Stantec		8/11/21 1150	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	8/11/21 1150	Stantec		8-11-21 1150	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	8-11-21 1742			8/11/21 1752	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-50879-1

Login Number: 50879

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Knoedler, Christine M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-51060-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/19/2021 2:48:15 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
8/19/2021 2:48:15 PM

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Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
FL	MS and/or MSD recovery below control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
FL	MS and/or MSD recovery below control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Job ID: 410-51060-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-51060-1

Receipt
The samples were received on 8/12/2021 5:42 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: Pipe 27 (2) (410-51060-1) and Pipe 30 (2) (410-51060-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: Pipe 44 (2) (410-51060-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Client Sample ID: Pipe 27 (2) — Lab Sample ID: 410-51060-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	8.4	J	23	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	5.4	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	40		1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 29 (2) — Lab Sample ID: 410-51060-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1000		590	47	ug/Kg	50	☼	8260C	Total/NA
1,2-Dichloroethane	95	J	590	71	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	18000		590	59	ug/Kg	50	☼	8260C	Total/NA
Toluene	4100		590	71	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	10000		1200	170	ug/Kg	50	☼	8260C	Total/NA
Benzene	660		590	59	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	4800		590	240	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	10000		590	59	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	240	J	590	47	ug/Kg	50	☼	8260C	Total/NA
Anthracene	660		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	21	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	11	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	20	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	17	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	87		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	2500		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	3200		28	6.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1300		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Lead	22		2.1	0.85	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP-7 — Lab Sample ID: 410-51060-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1600		670	53	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	34000		670	67	ug/Kg	50	☼	8260C	Total/NA
Toluene	180	J	670	80	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	23000		1300	190	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	3100		670	270	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	2400		670	53	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	100000		6700	670	ug/Kg	500	☼	8260C	Total/NA
Anthracene	690		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	22	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	10	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	22	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	14	J	28	5.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	75		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	2200		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	3000		28	6.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1100		28	5.6	ug/Kg	1	☼	8270D	Total/NA
Lead	24	FL	1.8	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 30 (2) — Lab Sample ID: 410-51060-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	210	J	690	69	ug/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 30 (2) (Continued) — Lab Sample ID: 410-51060-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	88	J	690	83	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	330	J	690	69	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	6.7	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.5	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	9.8	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	34		30	7.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	11	J	30	6.0	ug/Kg	1	☼	8270D	Total/NA
Lead	54		2.4	0.97	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 4 (2) — Lab Sample ID: 410-51060-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	4.1	J	18	3.6	ug/Kg	1	☼	8270D	Total/NA
Lead	14		1.1	0.45	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 44 (2) — Lab Sample ID: 410-51060-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	140	J	770	77	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	220	J	770	77	ug/Kg	50	☼	8260C	Total/NA
Anthracene	290		31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	30	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	18	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	33		31	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	23	J	31	6.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	68		31	6.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	250		31	6.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	470		31	7.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	710		31	6.2	ug/Kg	1	☼	8270D	Total/NA
Lead	32		2.1	0.86	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1044-P5 (3) — Lab Sample ID: 410-51060-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	39		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	17	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	24		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	33		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	22	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	28		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	36		24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	34		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Lead	120		1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 649-P3 (3) — Lab Sample ID: 410-51060-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	86		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	240		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	190		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	220		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	130		22	4.5	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 649-P3 (3) (Continued) — Lab Sample ID: 410-51060-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	230		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	24		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	360		22	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	460		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	230		1.6	0.63	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 649-P1 (3) — Lab Sample ID: 410-51060-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.4	J	10	1.2	ug/Kg	1	☼	8260C	Total/NA
Toluene	8.2	J	10	1.2	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	9.6	J	20	2.9	ug/Kg	1	☼	8260C	Total/NA
Benzene	7.5	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.1	J	10	1.0	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	20	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	25	J	26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	35		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	32		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	27		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	31		26	6.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	31		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Lead	83		2.1	0.82	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 649-P2 (3) — Lab Sample ID: 410-51060-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.5	J	8.0	0.97	ug/Kg	1	☼	8260C	Total/NA
Toluene	3.1	J	8.0	0.97	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.0	J	8.0	0.80	ug/Kg	1	☼	8260C	Total/NA
Anthracene	42		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	830		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	920		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1100		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	600		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	780		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	6.5	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	75		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1300		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	46		1.5	0.58	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 649-P4 (3) — Lab Sample ID: 410-51060-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	2.3	J	7.6	0.91	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.1	J	7.6	0.76	ug/Kg	1	☼	8260C	Total/NA
Toluene	19		7.6	0.91	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	11	J	15	2.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	13		7.6	0.76	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.8	J	7.6	0.76	ug/Kg	1	☼	8260C	Total/NA
Anthracene	11	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	24		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	28		22	4.4	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 649-P4 (3) (Continued)

Lab Sample ID: 410-51060-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	50		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	31		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	40		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	41		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	42		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	580		1.8	0.73	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 64 (2)

Lab Sample ID: 410-51060-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.9	J	9.6	1.2	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.2	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	15	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	15	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	20	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	11	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	15	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	16	J	24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	23	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Lead	190		2.1	0.83	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 66 (2)

Lab Sample ID: 410-51060-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	4.5	J	8.8	1.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.2	J	8.8	0.88	ug/Kg	1	☼	8260C	Total/NA
Anthracene	5.4	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	16	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	17	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	25		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	17	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	18	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	22	J	24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	24		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Lead	180		1.8	0.73	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 65 (2)

Lab Sample ID: 410-51060-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.84	J	8.0	0.80	ug/Kg	1	☼	8260C	Total/NA
Anthracene	16	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	25		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	25		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	34		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	21	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	35		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	11	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	74		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	65		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	44		1.9	0.76	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Client Sample ID: Trip Blank **Lab Sample ID: 410-51060-15**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: Pipe 27 (2)

Lab Sample ID: 410-51060-1

Date Collected: 08/11/21 13:00
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 72.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		770	61	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
1,2-Dichloroethane	ND		770	92	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
1,3,5-Trimethylbenzene	ND		770	77	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
Toluene	ND		770	92	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
Xylenes, Total	ND		1500	210	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
Methyl tertiary butyl ether	ND		770	77	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
Benzene	ND		770	77	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
Naphthalene	ND		770	310	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
1,2,4-Trimethylbenzene	ND		770	77	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
Isopropylbenzene	ND		770	61	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50
1,2-Dibromoethane	ND		770	61	ug/Kg	☼	08/13/21 10:25	08/17/21 18:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*54 - 135*	*08/13/21 10:25*	*08/17/21 18:15*	*50*
4-Bromofluorobenzene (Surr)	*79*		*50 - 131*	*08/13/21 10:25*	*08/17/21 18:15*	*50*
Dibromofluoromethane (Surr)	*81*		*50 - 141*	*08/13/21 10:25*	*08/17/21 18:15*	*50*
Toluene-d8 (Surr)	*81*		*52 - 141*	*08/13/21 10:25*	*08/17/21 18:15*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Benzo[a]anthracene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Benzo[a]pyrene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Benzo[b]fluoranthene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Benzo[g,h,i]perylene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Chrysene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Fluorene	ND		23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Phenanthrene	**8.4**	**J**	23	5.4	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1
Pyrene	**5.4**	**J**	23	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*08/14/21 08:45*	*08/16/21 15:48*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/14/21 08:45*	*08/16/21 15:48*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/14/21 08:45*	*08/16/21 15:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**40**		1.7	0.69	mg/Kg	☼	08/13/21 12:16	08/17/21 13:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.2**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 29 (2)

Lab Sample ID: 410-51060-2

Date Collected: 08/11/21 13:15
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 59.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**1000**		590	47	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
1,2-Dichloroethane	**95**	**J**	590	71	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50

Client Sample ID: Pipe 29 (2)

Lab Sample ID: 410-51060-2

Date Collected: 08/11/21 13:15
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 59.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	18000		590	59	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
Toluene	4100		590	71	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
Xylenes, Total	10000		1200	170	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
Methyl tertiary butyl ether	ND		590	59	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
Benzene	660		590	59	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
Naphthalene	4800		590	240	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
1,2,4-Trimethylbenzene	10000		590	59	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
Isopropylbenzene	240	J	590	47	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50
1,2-Dibromoethane	ND		590	47	ug/Kg	☼	08/13/21 10:25	08/17/21 18:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*54 - 135*	*08/13/21 10:25*	*08/17/21 18:36*	*50*
4-Bromofluorobenzene (Surr)	*68*		*50 - 131*	*08/13/21 10:25*	*08/17/21 18:36*	*50*
Dibromofluoromethane (Surr)	*67*		*50 - 141*	*08/13/21 10:25*	*08/17/21 18:36*	*50*
Toluene-d8 (Surr)	*67*		*52 - 141*	*08/13/21 10:25*	*08/17/21 18:36*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	660		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Benzo[a]anthracene	21	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Benzo[a]pyrene	11	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Benzo[b]fluoranthene	20	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Benzo[g,h,i]perylene	17	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Chrysene	87		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Fluorene	2500		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Phenanthrene	3200		28	6.7	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1
Pyrene	1300		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*39 - 100*	*08/14/21 08:45*	*08/16/21 16:11*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*08/14/21 08:45*	*08/16/21 16:11*	*1*
p-Terphenyl-d14 (Surr)	*68*		*45 - 108*	*08/14/21 08:45*	*08/16/21 16:11*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	22		2.1	0.85	mg/Kg	☼	08/13/21 12:16	08/17/21 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	40.8		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: DUP-7

Lab Sample ID: 410-51060-3

Date Collected: 08/11/21 00:00
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 59.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1600		670	53	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
1,2-Dichloroethane	ND		670	80	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
1,3,5-Trimethylbenzene	34000		670	67	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
Toluene	180	J	670	80	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Client Sample ID: DUP-7
Date Collected: 08/11/21 00:00
Date Received: 08/12/21 17:42

Lab Sample ID: 410-51060-3
Matrix: Solid
Percent Solids: 59.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	23000		1300	190	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
Methyl tertiary butyl ether	ND		670	67	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
Benzene	ND		670	67	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
Naphthalene	3100		670	270	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
Isopropylbenzene	2400		670	53	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50
1,2-Dibromoethane	ND		670	53	ug/Kg	☼	08/13/21 10:25	08/18/21 18:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*	*08/13/21 10:25*	*08/18/21 18:45*	*50*
4-Bromofluorobenzene (Surr)	*110*		*50 - 131*	*08/13/21 10:25*	*08/18/21 18:45*	*50*
Dibromofluoromethane (Surr)	*75*		*50 - 141*	*08/13/21 10:25*	*08/18/21 18:45*	*50*
Toluene-d8 (Surr)	*88*		*52 - 141*	*08/13/21 10:25*	*08/18/21 18:45*	*50*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	100000		6700	670	ug/Kg	☼	08/13/21 10:25	08/18/21 19:06	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*	*08/13/21 10:25*	*08/18/21 19:06*	*500*
4-Bromofluorobenzene (Surr)	*153*	*S1+*	*50 - 131*	*08/13/21 10:25*	*08/18/21 19:06*	*500*
Dibromofluoromethane (Surr)	*85*		*50 - 141*	*08/13/21 10:25*	*08/18/21 19:06*	*500*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/13/21 10:25*	*08/18/21 19:06*	*500*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	690		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Benzo[a]anthracene	22	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Benzo[a]pyrene	10	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Benzo[b]fluoranthene	22	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Benzo[g,h,i]perylene	14	J	28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Chrysene	75		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Fluorene	2200		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Phenanthrene	3000		28	6.7	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1
Pyrene	1100		28	5.6	ug/Kg	☼	08/14/21 08:45	08/16/21 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*45*		*39 - 100*	*08/14/21 08:45*	*08/16/21 16:33*	*1*
Nitrobenzene-d5 (Surr)	*39*		*32 - 97*	*08/14/21 08:45*	*08/16/21 16:33*	*1*
p-Terphenyl-d14 (Surr)	*66*		*45 - 108*	*08/14/21 08:45*	*08/16/21 16:33*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24	FL	1.8	0.74	mg/Kg	☼	08/13/21 12:16	08/17/21 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	40.3		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 30 (2)

Lab Sample ID: 410-51060-4

Date Collected: 08/11/21 13:40
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 54.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		690	55	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
1,2-Dichloroethane	ND		690	83	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
1,3,5-Trimethylbenzene	**210**	**J**	690	69	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
Toluene	**88**	**J**	690	83	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
Xylenes, Total	ND		1400	190	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
Methyl tertiary butyl ether	ND		690	69	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
Benzene	ND		690	69	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
Naphthalene	ND		690	280	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
1,2,4-Trimethylbenzene	**330**	**J**	690	69	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
Isopropylbenzene	ND		690	55	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50
1,2-Dibromoethane	ND		690	55	ug/Kg	☼	08/13/21 10:25	08/17/21 19:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*54 - 135*	*08/13/21 10:25*	*08/17/21 19:18*	*50*
4-Bromofluorobenzene (Surr)	*76*		*50 - 131*	*08/13/21 10:25*	*08/17/21 19:18*	*50*
Dibromofluoromethane (Surr)	*80*		*50 - 141*	*08/13/21 10:25*	*08/17/21 19:18*	*50*
Toluene-d8 (Surr)	*80*		*52 - 141*	*08/13/21 10:25*	*08/17/21 19:18*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Benzo[a]anthracene	**6.7**	**J**	30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Benzo[a]pyrene	ND		30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Benzo[b]fluoranthene	ND		30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Benzo[g,h,i]perylene	**8.5**	**J**	30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Chrysene	**13**	**J**	30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Fluorene	**9.8**	**J**	30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Phenanthrene	**34**		30	7.2	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1
Pyrene	**11**	**J**	30	6.0	ug/Kg	☼	08/14/21 08:45	08/16/21 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/14/21 08:45*	*08/16/21 16:56*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 97*	*08/14/21 08:45*	*08/16/21 16:56*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*08/14/21 08:45*	*08/16/21 16:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**54**		2.4	0.97	mg/Kg	☼	08/13/21 12:16	08/17/21 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**45.2**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 4 (2)

Lab Sample ID: 410-51060-5

Date Collected: 08/11/21 13:55
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.4	0.43	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
1,2-Dichloroethane	ND		5.4	0.65	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1

Client Sample ID: Pipe 4 (2)

Date Collected: 08/11/21 13:55
Date Received: 08/12/21 17:42

Lab Sample ID: 410-51060-5

Matrix: Solid
Percent Solids: 90.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.4	0.54	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
Toluene	ND		5.4	0.65	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
Methyl tertiary butyl ether	ND		5.4	0.54	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
Benzene	ND		5.4	0.54	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
Naphthalene	ND		5.4	2.2	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
1,2,4-Trimethylbenzene	ND		5.4	0.54	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
Isopropylbenzene	ND		5.4	0.43	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1
1,2-Dibromoethane	ND		5.4	0.43	ug/Kg	☼	08/13/21 10:27	08/16/21 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*08/13/21 10:27*	*08/16/21 19:53*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*08/13/21 10:27*	*08/16/21 19:53*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/13/21 10:27*	*08/16/21 19:53*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*08/13/21 10:27*	*08/16/21 19:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Benzo[a]anthracene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Benzo[a]pyrene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Benzo[b]fluoranthene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Benzo[g,h,i]perylene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Chrysene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Fluorene	ND		18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Phenanthrene	ND		18	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1
Pyrene	**4.1**	**J**	18	3.6	ug/Kg	☼	08/14/21 08:45	08/16/21 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/14/21 08:45*	*08/16/21 17:18*	*1*
Nitrobenzene-d5 (Surr)	*70*		*32 - 97*	*08/14/21 08:45*	*08/16/21 17:18*	*1*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*	*08/14/21 08:45*	*08/16/21 17:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		1.1	0.45	mg/Kg	☼	08/13/21 12:16	08/17/21 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.0**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 44 (2)

Date Collected: 08/11/21 14:40
Date Received: 08/12/21 17:42

Lab Sample ID: 410-51060-6

Matrix: Solid
Percent Solids: 53.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		770	61	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
1,2-Dichloroethane	ND		770	92	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
1,3,5-Trimethylbenzene	**140**	**J**	770	77	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
Toluene	ND		770	92	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50

Client Sample ID: Pipe 44 (2)

Lab Sample ID: 410-51060-6

Date Collected: 08/11/21 14:40
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 53.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		1500	210	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
Methyl tertiary butyl ether	ND		770	77	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
Benzene	ND		770	77	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
Naphthalene	ND		770	310	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
1,2,4-Trimethylbenzene	**220**	**J**	770	77	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
Isopropylbenzene	ND		770	61	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50
1,2-Dibromoethane	ND		770	61	ug/Kg	☼	08/13/21 10:25	08/18/21 19:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*08/13/21 10:25*	*08/18/21 19:26*	*50*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/13/21 10:25*	*08/18/21 19:26*	*50*
Dibromofluoromethane (Surr)	*69*		*50 - 141*	*08/13/21 10:25*	*08/18/21 19:26*	*50*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/13/21 10:25*	*08/18/21 19:26*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**290**		31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Benzo[a]anthracene	**30**	**J**	31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Benzo[a]pyrene	**18**	**J**	31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Benzo[b]fluoranthene	**33**		31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Benzo[g,h,i]perylene	**23**	**J**	31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Chrysene	**68**		31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Fluorene	**250**		31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Phenanthrene	**470**		31	7.4	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1
Pyrene	**710**		31	6.2	ug/Kg	☼	08/14/21 08:45	08/16/21 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*57*		*39 - 100*	*08/14/21 08:45*	*08/16/21 17:40*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*08/14/21 08:45*	*08/16/21 17:40*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*08/14/21 08:45*	*08/16/21 17:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**32**		2.1	0.86	mg/Kg	☼	08/13/21 12:16	08/17/21 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**46.7**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: 1044-P5 (3)

Lab Sample ID: 410-51060-7

Date Collected: 08/12/21 09:00
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 69.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.80	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
1,2-Dichloroethane	ND		10	1.2	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
Toluene	ND		10	1.2	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
Xylenes, Total	ND		20	2.8	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
Methyl tertiary butyl ether	ND		10	1.0	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1

Client Sample ID: 1044-P5 (3)

Lab Sample ID: 410-51060-7

Date Collected: 08/12/21 09:00
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 69.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10	1.0	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
Naphthalene	ND		10	4.0	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
1,2,4-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
Isopropylbenzene	ND		10	0.80	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1
1,2-Dibromoethane	ND		10	0.80	ug/Kg	☼	08/13/21 10:27	08/19/21 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/13/21 10:27*	*08/19/21 14:46*	*1*
4-Bromofluorobenzene (Surr)	*81*		*50 - 131*	*08/13/21 10:27*	*08/19/21 14:46*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*08/13/21 10:27*	*08/19/21 14:46*	*1*
Toluene-d8 (Surr)	*107*		*52 - 141*	*08/13/21 10:27*	*08/19/21 14:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**39**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Benzo[a]anthracene	**17**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Benzo[a]pyrene	**24**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Benzo[b]fluoranthene	**33**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Benzo[g,h,i]perylene	**22**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Chrysene	**28**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Fluorene	ND		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Phenanthrene	**36**		24	5.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1
Pyrene	**34**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*39 - 100*	*08/14/21 08:45*	*08/16/21 18:03*	*1*
Nitrobenzene-d5 (Surr)	*59*		*32 - 97*	*08/14/21 08:45*	*08/16/21 18:03*	*1*
p-Terphenyl-d14 (Surr)	*72*		*45 - 108*	*08/14/21 08:45*	*08/16/21 18:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**120**		1.5	0.59	mg/Kg	☼	08/13/21 12:16	08/17/21 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.9**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: 649-P3 (3)

Lab Sample ID: 410-51060-8

Date Collected: 08/12/21 09:30
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 74.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.3	0.66	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
1,2-Dichloroethane	ND		8.3	0.99	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
1,3,5-Trimethylbenzene	ND		8.3	0.83	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
Toluene	ND		8.3	0.99	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
Xylenes, Total	ND		17	2.3	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
Methyl tertiary butyl ether	ND		8.3	0.83	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
Benzene	ND		8.3	0.83	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
Naphthalene	ND		8.3	3.3	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1

Client Sample ID: 649-P3 (3)

Lab Sample ID: 410-51060-8

Date Collected: 08/12/21 09:30
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 74.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		8.3	0.83	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
Isopropylbenzene	ND		8.3	0.66	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1
1,2-Dibromoethane	ND		8.3	0.66	ug/Kg	☼	08/13/21 10:27	08/16/21 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*08/13/21 10:27*	*08/16/21 16:48*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*08/13/21 10:27*	*08/16/21 16:48*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/13/21 10:27*	*08/16/21 16:48*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/13/21 10:27*	*08/16/21 16:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**86**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Benzo[a]anthracene	**240**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Benzo[a]pyrene	**190**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Benzo[b]fluoranthene	**220**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Benzo[g,h,i]perylene	**130**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Chrysene	**230**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Fluorene	**24**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Phenanthrene	**360**		22	5.4	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1
Pyrene	**460**		22	4.5	ug/Kg	☼	08/14/21 08:45	08/16/21 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*08/14/21 08:45*	*08/16/21 18:25*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/14/21 08:45*	*08/16/21 18:25*	*1*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*08/14/21 08:45*	*08/16/21 18:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**230**		1.6	0.63	mg/Kg	☼	08/13/21 12:16	08/17/21 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.9**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: 649-P1 (3)

Lab Sample ID: 410-51060-9

Date Collected: 08/12/21 09:50
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 63.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.82	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
1,2-Dichloroethane	**1.4**	**J**	10	1.2	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
Toluene	**8.2**	**J**	10	1.2	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
Xylenes, Total	**9.6**	**J**	20	2.9	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
Methyl tertiary butyl ether	ND		10	1.0	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
Benzene	**7.5**	**J**	10	1.0	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
Naphthalene	ND		10	4.1	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
1,2,4-Trimethylbenzene	**1.1**	**J**	10	1.0	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1
Isopropylbenzene	ND		10	0.82	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1

Client Sample ID: 649-P1 (3)

Lab Sample ID: 410-51060-9

Date Collected: 08/12/21 09:50
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 63.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		10	0.82	ug/Kg	☼	08/13/21 10:27	08/16/21 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*54 - 135*	*08/13/21 10:27*	*08/16/21 20:16*	*1*
4-Bromofluorobenzene (Surr)	*85*		*50 - 131*	*08/13/21 10:27*	*08/16/21 20:16*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/13/21 10:27*	*08/16/21 20:16*	*1*
Toluene-d8 (Surr)	*106*		*52 - 141*	*08/13/21 10:27*	*08/16/21 20:16*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Benzo[a]anthracene	**20**	**J**	26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Benzo[a]pyrene	**25**	**J**	26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Benzo[b]fluoranthene	**35**		26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Benzo[g,h,i]perylene	**32**		26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Chrysene	**27**		26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Fluorene	ND		26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Phenanthrene	**31**		26	6.3	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1
Pyrene	**31**		26	5.2	ug/Kg	☼	08/14/21 08:45	08/16/21 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*39 - 100*	*08/14/21 08:45*	*08/16/21 18:48*	*1*
Nitrobenzene-d5 (Surr)	*58*		*32 - 97*	*08/14/21 08:45*	*08/16/21 18:48*	*1*
p-Terphenyl-d14 (Surr)	*81*		*45 - 108*	*08/14/21 08:45*	*08/16/21 18:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**83**		2.1	0.82	mg/Kg	☼	08/13/21 12:16	08/17/21 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**36.7**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: 649-P2 (3)

Lab Sample ID: 410-51060-10

Date Collected: 08/12/21 10:05
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 79.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.0	0.64	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
1,2-Dichloroethane	**1.5**	**J**	8.0	0.97	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
1,3,5-Trimethylbenzene	ND		8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
Toluene	**3.1**	**J**	8.0	0.97	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
Xylenes, Total	ND		16	2.3	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
Methyl tertiary butyl ether	ND		8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
Benzene	**3.0**	**J**	8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
Naphthalene	ND		8.0	3.2	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
1,2,4-Trimethylbenzene	ND		8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
Isopropylbenzene	ND		8.0	0.64	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1
1,2-Dibromoethane	ND		8.0	0.64	ug/Kg	☼	08/13/21 10:27	08/16/21 20:39	1

Client Sample ID: 649-P2 (3)

Lab Sample ID: 410-51060-10

Date Collected: 08/12/21 10:05
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 79.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		54 - 135	08/13/21 10:27	08/16/21 20:39	1
4-Bromofluorobenzene (Surr)	88		50 - 131	08/13/21 10:27	08/16/21 20:39	1
Dibromofluoromethane (Surr)	106		50 - 141	08/13/21 10:27	08/16/21 20:39	1
Toluene-d8 (Surr)	106		52 - 141	08/13/21 10:27	08/16/21 20:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	42		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Benzo[a]anthracene	830		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Benzo[a]pyrene	920		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Benzo[b]fluoranthene	1100		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Benzo[g,h,i]perylene	600		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Chrysene	780		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Fluorene	6.5	J	21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Phenanthrene	75		21	5.0	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1
Pyrene	1300		21	4.2	ug/Kg	☼	08/14/21 08:45	08/16/21 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79		39 - 100	08/14/21 08:45	08/16/21 19:10	1
Nitrobenzene-d5 (Surr)	64		32 - 97	08/14/21 08:45	08/16/21 19:10	1
p-Terphenyl-d14 (Surr)	79		45 - 108	08/14/21 08:45	08/16/21 19:10	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	46		1.5	0.58	mg/Kg	☼	08/13/21 12:16	08/17/21 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.9		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: 649-P4 (3)

Lab Sample ID: 410-51060-11

Date Collected: 08/12/21 10:30
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 75.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.6	0.61	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
1,2-Dichloroethane	2.3	J	7.6	0.91	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
1,3,5-Trimethylbenzene	1.1	J	7.6	0.76	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
Toluene	19		7.6	0.91	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
Xylenes, Total	11	J	15	2.1	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
Methyl tertiary butyl ether	ND		7.6	0.76	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
Benzene	13		7.6	0.76	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
Naphthalene	ND		7.6	3.0	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
1,2,4-Trimethylbenzene	1.8	J	7.6	0.76	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
Isopropylbenzene	ND		7.6	0.61	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1
1,2-Dibromoethane	ND		7.6	0.61	ug/Kg	☼	08/13/21 10:27	08/16/21 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		54 - 135	08/13/21 10:27	08/16/21 17:57	1
4-Bromofluorobenzene (Surr)	88		50 - 131	08/13/21 10:27	08/16/21 17:57	1
Dibromofluoromethane (Surr)	103		50 - 141	08/13/21 10:27	08/16/21 17:57	1

Client Sample ID: 649-P4 (3)

Lab Sample ID: 410-51060-11

Date Collected: 08/12/21 10:30
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 75.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*52 - 141*	*08/13/21 10:27*	*08/16/21 17:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**11**	**J**	22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Benzo[a]anthracene	**24**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Benzo[a]pyrene	**28**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Benzo[b]fluoranthene	**50**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Benzo[g,h,i]perylene	**31**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Chrysene	**40**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Fluorene	ND		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Phenanthrene	**41**		22	5.3	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1
Pyrene	**42**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/16/21 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*08/14/21 08:45*	*08/16/21 19:33*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/14/21 08:45*	*08/16/21 19:33*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*08/14/21 08:45*	*08/16/21 19:33*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**580**		1.8	0.73	mg/Kg	☼	08/13/21 12:16	08/17/21 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.0**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 64 (2)

Lab Sample ID: 410-51060-12

Date Collected: 08/12/21 10:45
Matrix: Solid
Date Received: 08/12/21 17:42
Percent Solids: 68.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	0.77	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
1,2-Dichloroethane	ND		9.6	1.2	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
1,3,5-Trimethylbenzene	ND		9.6	0.96	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
Toluene	**1.9**	**J**	9.6	1.2	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
Xylenes, Total	ND		19	2.7	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
Methyl tertiary butyl ether	ND		9.6	0.96	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
Benzene	**2.2**	**J**	9.6	0.96	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
Naphthalene	ND		9.6	3.9	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
1,2,4-Trimethylbenzene	ND		9.6	0.96	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
Isopropylbenzene	ND		9.6	0.77	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1
1,2-Dibromoethane	ND		9.6	0.77	ug/Kg	☼	08/13/21 10:27	08/16/21 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*08/13/21 10:27*	*08/16/21 21:02*	*1*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*	*08/13/21 10:27*	*08/16/21 21:02*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*	*08/13/21 10:27*	*08/16/21 21:02*	*1*
Toluene-d8 (Surr)	*107*		*52 - 141*	*08/13/21 10:27*	*08/16/21 21:02*	*1*

Client Sample ID: Pipe 64 (2)

Date Collected: 08/12/21 10:45
Date Received: 08/12/21 17:42

Lab Sample ID: 410-51060-12

Matrix: Solid
Percent Solids: 68.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Benzo[a]anthracene	**15**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Benzo[a]pyrene	**15**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Benzo[b]fluoranthene	**20**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Benzo[g,h,i]perylene	**11**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Chrysene	**15**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Fluorene	ND		24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Phenanthrene	**16**	**J**	24	5.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1
Pyrene	**23**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/16/21 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*	*08/14/21 08:45*	*08/16/21 19:55*	*1*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*	*08/14/21 08:45*	*08/16/21 19:55*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/14/21 08:45*	*08/16/21 19:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**190**		2.1	0.83	mg/Kg	☼	08/13/21 12:16	08/17/21 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.5**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 66 (2)

Date Collected: 08/12/21 11:10
Date Received: 08/12/21 17:42

Lab Sample ID: 410-51060-13

Matrix: Solid
Percent Solids: 68.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.8	0.70	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
1,2-Dichloroethane	ND		8.8	1.1	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
1,3,5-Trimethylbenzene	ND		8.8	0.88	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
Toluene	**4.5**	**J**	8.8	1.1	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
Xylenes, Total	ND		18	2.5	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
Methyl tertiary butyl ether	ND		8.8	0.88	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
Benzene	**3.2**	**J**	8.8	0.88	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
Naphthalene	ND		8.8	3.5	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
1,2,4-Trimethylbenzene	ND		8.8	0.88	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
Isopropylbenzene	ND		8.8	0.70	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1
1,2-Dibromoethane	ND		8.8	0.70	ug/Kg	☼	08/13/21 10:27	08/16/21 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*54 - 135*	*08/13/21 10:27*	*08/16/21 21:25*	*1*
4-Bromofluorobenzene (Surr)	*85*		*50 - 131*	*08/13/21 10:27*	*08/16/21 21:25*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/13/21 10:27*	*08/16/21 21:25*	*1*
Toluene-d8 (Surr)	*107*		*52 - 141*	*08/13/21 10:27*	*08/16/21 21:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**5.4**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Benzo[a]anthracene	**16**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1

Client Sample ID: Pipe 66 (2)

Lab Sample ID: 410-51060-13

Date Collected: 08/12/21 11:10

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 68.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**17**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Benzo[b]fluoranthene	**25**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Benzo[g,h,i]perylene	**17**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Chrysene	**18**	**J**	24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Fluorene	ND		24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Phenanthrene	**22**	**J**	24	5.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1
Pyrene	**24**		24	4.8	ug/Kg	☼	08/14/21 08:45	08/17/21 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*39 - 100*	*08/14/21 08:45*	*08/17/21 00:40*	*1*
Nitrobenzene-d5 (Surr)	*52*		*32 - 97*	*08/14/21 08:45*	*08/17/21 00:40*	*1*
p-Terphenyl-d14 (Surr)	*75*		*45 - 108*	*08/14/21 08:45*	*08/17/21 00:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**180**		1.8	0.73	mg/Kg	☼	08/13/21 12:16	08/17/21 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.3**		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Pipe 65 (2)

Lab Sample ID: 410-51060-14

Date Collected: 08/12/21 11:20

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 74.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.0	0.64	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
1,2-Dichloroethane	ND		8.0	0.96	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
1,3,5-Trimethylbenzene	ND		8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
Toluene	ND		8.0	0.96	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
Xylenes, Total	ND		16	2.2	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
Methyl tertiary butyl ether	ND		8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
Benzene	**0.84**	**J**	8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
Naphthalene	ND		8.0	3.2	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
1,2,4-Trimethylbenzene	ND		8.0	0.80	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
Isopropylbenzene	ND		8.0	0.64	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1
1,2-Dibromoethane	ND		8.0	0.64	ug/Kg	☼	08/13/21 10:27	08/18/21 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/13/21 10:27*	*08/18/21 18:37*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*08/13/21 10:27*	*08/18/21 18:37*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*08/13/21 10:27*	*08/18/21 18:37*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*08/13/21 10:27*	*08/18/21 18:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**16**	**J**	22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Benzo[a]anthracene	**25**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Benzo[a]pyrene	**25**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Benzo[b]fluoranthene	**34**		22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1

Client Sample ID: Pipe 65 (2)

Lab Sample ID: 410-51060-14

Date Collected: 08/12/21 11:20
Date Received: 08/12/21 17:42

Matrix: Solid
Percent Solids: 74.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	21	J	22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Chrysene	35		22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Fluorene	11	J	22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Phenanthrene	74		22	5.3	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1
Pyrene	65		22	4.4	ug/Kg	☼	08/14/21 08:45	08/17/21 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*	*08/14/21 08:45*	*08/17/21 01:02*	*1*
Nitrobenzene-d5 (Surr)	*62*		*32 - 97*	*08/14/21 08:45*	*08/17/21 01:02*	*1*
p-Terphenyl-d14 (Surr)	*81*		*45 - 108*	*08/14/21 08:45*	*08/17/21 01:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	44		1.9	0.76	mg/Kg	☼	08/13/21 12:16	08/17/21 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.9		1.0	1.0	%			08/13/21 09:24	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-51060-15

Date Collected: 08/12/21 00:00
Date Received: 08/12/21 17:42

Matrix: Water

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/13/21 11:24	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/13/21 11:24	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/13/21 11:24	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/13/21 11:24	1
Toluene	ND		1.0	0.30	ug/L			08/13/21 11:24	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/13/21 11:24	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/13/21 11:24	1
Benzene	ND		1.0	0.30	ug/L			08/13/21 11:24	1
Naphthalene	ND		5.0	1.0	ug/L			08/13/21 11:24	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/13/21 11:24	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/13/21 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*08/13/21 11:24*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/13/21 11:24*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*08/13/21 11:24*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/13/21 11:24*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-51060-1	Pipe 27 (2)	84	79	81	81
410-51060-2	Pipe 29 (2)	86	68	67	67
410-51060-3	DUP-7	102	110	75	88
410-51060-3 - DL	DUP-7	102	153 S1+	85	95
410-51060-4	Pipe 30 (2)	90	76	80	80
410-51060-5	Pipe 4 (2)	116	94	106	97
410-51060-6	Pipe 44 (2)	104	91	69	95
410-51060-7	1044-P5 (3)	113	81	107	107
410-51060-8	649-P3 (3)	111	95	104	98
410-51060-9	649-P1 (3)	110	85	105	106
410-51060-10	649-P2 (3)	111	88	106	106
410-51060-11	649-P4 (3)	109	88	103	105
410-51060-12	Pipe 64 (2)	113	84	108	107
410-51060-13	Pipe 66 (2)	110	85	105	107
410-51060-14	Pipe 65 (2)	114	93	105	98
LCS 410-160723/5	Lab Control Sample	103	98	100	101
LCS 410-161178/4	Lab Control Sample	100	87	98	92
LCS 410-161724/5	Lab Control Sample	103	87	99	92
LCS 410-161737/5	Lab Control Sample	102	97	99	102
LCS 410-162254/5	Lab Control Sample	101	96	99	101
LCSD 410-160723/6	Lab Control Sample Dup	100	96	99	101
LCSD 410-161178/5	Lab Control Sample Dup	102	86	99	93
LCSD 410-161724/6	Lab Control Sample Dup	103	88	100	93
LCSD 410-161737/6	Lab Control Sample Dup	101	97	99	102
LCSD 410-162254/6	Lab Control Sample Dup	101	98	100	102
MB 410-160723/8	Method Blank	104	95	100	99
MB 410-161178/7	Method Blank	101	84	98	90
MB 410-161724/8	Method Blank	101	85	97	91
MB 410-161737/8	Method Blank	104	93	101	98
MB 410-162254/10	Method Blank	103	93	101	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-51060-15	Trip Blank	98	103	101	94
LCS 410-160096/4	Lab Control Sample	97	105	101	94
LCSD 410-160096/5	Lab Control Sample Dup	97	103	100	93
MB 410-160096/6	Method Blank	97	104	100	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: Stantec Consulting Corp.
Job ID: 410-51060-1
Project/Site: PBF Logistics

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)						
410-51060-1	Pipe 27 (2)	82	66	82						
410-51060-2	Pipe 29 (2)	58	69	68						
410-51060-3	DUP-7	45	39	66						
410-51060-4	Pipe 30 (2)	80	66	83						
410-51060-5	Pipe 4 (2)	84	70	88						
410-51060-6	Pipe 44 (2)	57	68	79						
410-51060-7	1044-P5 (3)	65	59	72						
410-51060-8	649-P3 (3)	79	65	79						
410-51060-9	649-P1 (3)	71	58	81						
410-51060-10	649-P2 (3)	79	64	79						
410-51060-11	649-P4 (3)	81	65	83						
410-51060-12	Pipe 64 (2)	77	60	80						
410-51060-12 MS	Pipe 64 (2)	74	64	78						
410-51060-12 MSD	Pipe 64 (2)	73	60	74						
410-51060-13	Pipe 66 (2)	66	52	75						
410-51060-14	Pipe 65 (2)	73	62	81						
LCS 410-160489/2-A	Lab Control Sample	77	65	80						
MB 410-160489/1-A	Method Blank	85	72	91						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-160723/8
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/16/21 14:05	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/16/21 14:05	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Toluene	ND		5.0	0.60	ug/Kg			08/16/21 14:05	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/16/21 14:05	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Benzene	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/16/21 14:05	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/16/21 14:05	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/16/21 14:05	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/16/21 14:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*08/16/21 14:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*		*08/16/21 14:05*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 141*		*08/16/21 14:05*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*		*08/16/21 14:05*	*1*

Lab Sample ID: LCS 410-160723/5
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	17.5		ug/Kg		87	78 - 120
1,2-Dichloroethane	20.0	18.6		ug/Kg		93	71 - 128
1,3,5-Trimethylbenzene	20.0	17.3		ug/Kg		87	73 - 120
Toluene	20.0	17.6		ug/Kg		88	80 - 120
Xylenes, Total	60.0	52.7		ug/Kg		88	75 - 120
Methyl tertiary butyl ether	20.0	20.5		ug/Kg		102	72 - 120
Benzene	20.0	18.4		ug/Kg		92	80 - 120
Naphthalene	20.0	18.2		ug/Kg		91	48 - 130
1,2,4-Trimethylbenzene	20.0	17.6		ug/Kg		88	73 - 120
Isopropylbenzene	20.0	17.3		ug/Kg		86	77 - 120
1,2-Dibromoethane	20.0	19.1		ug/Kg		96	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: LCSD 410-160723/6
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	17.7		ug/Kg		89	78 - 120	1	30
1,2-Dichloroethane	20.0	18.2		ug/Kg		91	71 - 128	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-160723/6
Matrix: Solid
Analysis Batch: 160723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	17.7		ug/Kg		88	73 - 120	2	30
Toluene			20.0	17.7		ug/Kg		89	80 - 120	1	30
Xylenes, Total			60.0	53.3		ug/Kg		89	75 - 120	1	30
Methyl tertiary butyl ether			20.0	19.6		ug/Kg		98	72 - 120	4	30
Benzene			20.0	18.3		ug/Kg		92	80 - 120	1	30
Naphthalene			20.0	17.0		ug/Kg		85	48 - 130	6	30
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		90	73 - 120	2	30
Isopropylbenzene			20.0	17.4		ug/Kg		87	77 - 120	1	30
1,2-Dibromoethane			20.0	18.6		ug/Kg		93	76 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: MB 410-161178/7
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/17/21 10:51	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/17/21 10:51	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/17/21 10:51	50
Toluene	ND		250	30	ug/Kg			08/17/21 10:51	50
Xylenes, Total	ND		500	70	ug/Kg			08/17/21 10:51	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/17/21 10:51	50
Benzene	ND		250	25	ug/Kg			08/17/21 10:51	50
Naphthalene	ND		250	100	ug/Kg			08/17/21 10:51	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/17/21 10:51	50
Isopropylbenzene	ND		250	20	ug/Kg			08/17/21 10:51	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/17/21 10:51	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*		*08/17/21 10:51*	*50*
4-Bromofluorobenzene (Surr)	*84*		*50 - 131*		*08/17/21 10:51*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*08/17/21 10:51*	*50*
Toluene-d8 (Surr)	*90*		*52 - 141*		*08/17/21 10:51*	*50*

Lab Sample ID: LCS 410-161178/4
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	949		ug/Kg		95	78 - 120
1,2-Dichloroethane			1000	950		ug/Kg		95	71 - 128
1,3,5-Trimethylbenzene			1000	871		ug/Kg		87	73 - 120
Toluene			1000	974		ug/Kg		97	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-161178/4
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			3000	2960		ug/Kg		99	75 - 120		
Methyl tertiary butyl ether			1000	988		ug/Kg		99	72 - 120		
Benzene			1000	1000		ug/Kg		100	80 - 120		
Naphthalene			1000	922		ug/Kg		92	48 - 130		
1,2,4-Trimethylbenzene			1000	871		ug/Kg		87	73 - 120		
Isopropylbenzene			1000	980		ug/Kg		98	77 - 120		
1,2-Dibromoethane			1000	993		ug/Kg		99	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*98*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: LCSD 410-161178/5
Matrix: Solid
Analysis Batch: 161178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	960		ug/Kg		96	78 - 120	1	30
1,2-Dichloroethane			1000	926		ug/Kg		93	71 - 128	3	30
1,3,5-Trimethylbenzene			1000	885		ug/Kg		89	73 - 120	2	30
Toluene			1000	970		ug/Kg		97	80 - 120	0	30
Xylenes, Total			3000	2940		ug/Kg		98	75 - 120	1	30
Methyl tertiary butyl ether			1000	1000		ug/Kg		100	72 - 120	1	30
Benzene			1000	1020		ug/Kg		102	80 - 120	2	30
Naphthalene			1000	930		ug/Kg		93	48 - 130	1	30
1,2,4-Trimethylbenzene			1000	873		ug/Kg		87	73 - 120	0	30
Isopropylbenzene			1000	985		ug/Kg		98	77 - 120	0	30
1,2-Dibromoethane			1000	992		ug/Kg		99	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*93*		*52 - 141*

Lab Sample ID: MB 410-161724/8
Matrix: Solid
Analysis Batch: 161724

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/18/21 13:23	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/18/21 13:23	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/18/21 13:23	50
Toluene	ND		250	30	ug/Kg			08/18/21 13:23	50
Xylenes, Total	ND		500	70	ug/Kg			08/18/21 13:23	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/18/21 13:23	50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-161724/8
Matrix: Solid
Analysis Batch: 161724

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		250	25	ug/Kg			08/18/21 13:23	50
Naphthalene	ND		250	100	ug/Kg			08/18/21 13:23	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/18/21 13:23	50
Isopropylbenzene	ND		250	20	ug/Kg			08/18/21 13:23	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/18/21 13:23	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*		*08/18/21 13:23*	*50*
4-Bromofluorobenzene (Surr)	*85*		*50 - 131*		*08/18/21 13:23*	*50*
Dibromofluoromethane (Surr)	*97*		*50 - 141*		*08/18/21 13:23*	*50*
Toluene-d8 (Surr)	*91*		*52 - 141*		*08/18/21 13:23*	*50*

Lab Sample ID: LCS 410-161724/5
Matrix: Solid
Analysis Batch: 161724

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	944		ug/Kg		94	78 - 120		
1,2-Dichloroethane			1000	944		ug/Kg		94	71 - 128		
1,3,5-Trimethylbenzene			1000	864		ug/Kg		86	73 - 120		
Toluene			1000	965		ug/Kg		97	80 - 120		
Xylenes, Total			3000	2940		ug/Kg		98	75 - 120		
Methyl tertiary butyl ether			1000	1010		ug/Kg		101	72 - 120		
Benzene			1000	1020		ug/Kg		102	80 - 120		
Naphthalene			1000	932		ug/Kg		93	48 - 130		
1,2,4-Trimethylbenzene			1000	861		ug/Kg		86	73 - 120		
Isopropylbenzene			1000	981		ug/Kg		98	77 - 120		
1,2-Dibromoethane			1000	990		ug/Kg		99	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*92*		*52 - 141*

Lab Sample ID: LCSD 410-161724/6
Matrix: Solid
Analysis Batch: 161724

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	959		ug/Kg		96	78 - 120	2	30
1,2-Dichloroethane			1000	938		ug/Kg		94	71 - 128	1	30
1,3,5-Trimethylbenzene			1000	883		ug/Kg		88	73 - 120	2	30
Toluene			1000	990		ug/Kg		99	80 - 120	3	30
Xylenes, Total			3000	2980		ug/Kg		99	75 - 120	1	30
Methyl tertiary butyl ether			1000	1030		ug/Kg		103	72 - 120	1	30
Benzene			1000	1040		ug/Kg		104	80 - 120	2	30
Naphthalene			1000	928		ug/Kg		93	48 - 130	0	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-161724/6
Matrix: Solid
Analysis Batch: 161724

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			1000	864		ug/Kg		86	73 - 120	0	30
Isopropylbenzene			1000	993		ug/Kg		99	77 - 120	1	30
1,2-Dibromoethane			1000	993		ug/Kg		99	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*93*		*52 - 141*

Lab Sample ID: MB 410-161737/8
Matrix: Solid
Analysis Batch: 161737

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/18/21 12:22	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/18/21 12:22	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/18/21 12:22	1
Toluene	ND		5.0	0.60	ug/Kg			08/18/21 12:22	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/18/21 12:22	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/18/21 12:22	1
Benzene	ND		5.0	0.50	ug/Kg			08/18/21 12:22	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/18/21 12:22	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/18/21 12:22	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/18/21 12:22	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/18/21 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*08/18/21 12:22*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*		*08/18/21 12:22*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 141*		*08/18/21 12:22*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*		*08/18/21 12:22*	*1*

Lab Sample ID: LCS 410-161737/5
Matrix: Solid
Analysis Batch: 161737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	17.5		ug/Kg		88	78 - 120		
1,2-Dichloroethane			20.0	18.4		ug/Kg		92	71 - 128		
1,3,5-Trimethylbenzene			20.0	17.1		ug/Kg		85	73 - 120		
Toluene			20.0	17.5		ug/Kg		87	80 - 120		
Xylenes, Total			60.0	52.9		ug/Kg		88	75 - 120		
Methyl tertiary butyl ether			20.0	18.1		ug/Kg		91	72 - 120		
Benzene			20.0	18.5		ug/Kg		92	80 - 120		
Naphthalene			20.0	17.0		ug/Kg		85	48 - 130		
1,2,4-Trimethylbenzene			20.0	17.4		ug/Kg		87	73 - 120		
Isopropylbenzene			20.0	16.9		ug/Kg		85	77 - 120		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-161737/5
Matrix: Solid
Analysis Batch: 161737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	18.8		ug/Kg		94	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*102*		*52 - 141*

Lab Sample ID: LCSD 410-161737/6
Matrix: Solid
Analysis Batch: 161737

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	17.4		ug/Kg		87	78 - 120	1	30
1,2-Dichloroethane			20.0	18.1		ug/Kg		90	71 - 128	2	30
1,3,5-Trimethylbenzene			20.0	16.9		ug/Kg		85	73 - 120	1	30
Toluene			20.0	17.6		ug/Kg		88	80 - 120	1	30
Xylenes, Total			60.0	52.3		ug/Kg		87	75 - 120	1	30
Methyl tertiary butyl ether			20.0	17.6		ug/Kg		88	72 - 120	3	30
Benzene			20.0	18.1		ug/Kg		91	80 - 120	2	30
Naphthalene			20.0	16.5		ug/Kg		82	48 - 130	3	30
1,2,4-Trimethylbenzene			20.0	17.3		ug/Kg		86	73 - 120	0	30
Isopropylbenzene			20.0	16.8		ug/Kg		84	77 - 120	1	30
1,2-Dibromoethane			20.0	18.3		ug/Kg		92	76 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*102*		*52 - 141*

Lab Sample ID: MB 410-162254/10
Matrix: Solid
Analysis Batch: 162254

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/19/21 14:05	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/19/21 14:05	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/19/21 14:05	1
Toluene	ND		5.0	0.60	ug/Kg			08/19/21 14:05	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/19/21 14:05	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/19/21 14:05	1
Benzene	ND		5.0	0.50	ug/Kg			08/19/21 14:05	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/19/21 14:05	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/19/21 14:05	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/19/21 14:05	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/19/21 14:05	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-162254/10
Matrix: Solid
Analysis Batch: 162254

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		54 - 135		08/19/21 14:05	1
4-Bromofluorobenzene (Surr)	93		50 - 131		08/19/21 14:05	1
Dibromofluoromethane (Surr)	101		50 - 141		08/19/21 14:05	1
Toluene-d8 (Surr)	98		52 - 141		08/19/21 14:05	1

Lab Sample ID: LCS 410-162254/5
Matrix: Solid
Analysis Batch: 162254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	18.8		ug/Kg		94	78 - 120		
1,2-Dichloroethane			20.0	19.2		ug/Kg		96	71 - 128		
1,3,5-Trimethylbenzene			20.0	18.6		ug/Kg		93	73 - 120		
Toluene			20.0	18.5		ug/Kg		92	80 - 120		
Xylenes, Total			60.0	56.2		ug/Kg		94	75 - 120		
Methyl tertiary butyl ether			20.0	18.7		ug/Kg		94	72 - 120		
Benzene			20.0	19.7		ug/Kg		98	80 - 120		
Naphthalene			20.0	17.9		ug/Kg		89	48 - 130		
1,2,4-Trimethylbenzene			20.0	18.6		ug/Kg		93	73 - 120		
Isopropylbenzene			20.0	18.5		ug/Kg		92	77 - 120		
1,2-Dibromoethane			20.0	19.3		ug/Kg		97	76 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		54 - 135
4-Bromofluorobenzene (Surr)	96		50 - 131
Dibromofluoromethane (Surr)	99		50 - 141
Toluene-d8 (Surr)	101		52 - 141

Lab Sample ID: LCSD 410-162254/6
Matrix: Solid
Analysis Batch: 162254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	19.0		ug/Kg		95	78 - 120	1	30
1,2-Dichloroethane			20.0	19.5		ug/Kg		98	71 - 128	2	30
1,3,5-Trimethylbenzene			20.0	18.8		ug/Kg		94	73 - 120	1	30
Toluene			20.0	18.7		ug/Kg		94	80 - 120	1	30
Xylenes, Total			60.0	56.8		ug/Kg		95	75 - 120	1	30
Methyl tertiary butyl ether			20.0	18.9		ug/Kg		95	72 - 120	1	30
Benzene			20.0	19.7		ug/Kg		98	80 - 120	0	30
Naphthalene			20.0	17.6		ug/Kg		88	48 - 130	2	30
1,2,4-Trimethylbenzene			20.0	18.7		ug/Kg		93	73 - 120	0	30
Isopropylbenzene			20.0	18.7		ug/Kg		93	77 - 120	1	30
1,2-Dibromoethane			20.0	19.6		ug/Kg		98	76 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		54 - 135
4-Bromofluorobenzene (Surr)	98		50 - 131

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-162254/6
Matrix: Solid
Analysis Batch: 162254

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*102*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-160096/6
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/13/21 10:12	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/13/21 10:12	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:12	1
Toluene	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/13/21 10:12	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/13/21 10:12	1
Benzene	ND		1.0	0.30	ug/L			08/13/21 10:12	1
Naphthalene	ND		5.0	1.0	ug/L			08/13/21 10:12	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/13/21 10:12	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/13/21 10:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/13/21 10:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/13/21 10:12*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/13/21 10:12*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*08/13/21 10:12*	*1*

Lab Sample ID: LCS 410-160096/4
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	20.0	16.2		ug/L		81	77 - 120
Ethylbenzene	20.0	16.8		ug/L		84	80 - 120
1,2-Dichloroethane	20.0	17.6		ug/L		88	73 - 124
1,3,5-Trimethylbenzene	20.0	15.8		ug/L		79	75 - 120
Toluene	20.0	16.4		ug/L		82	80 - 120
Xylenes, Total	60.0	49.9		ug/L		83	80 - 120
Methyl tertiary butyl ether	20.0	18.1		ug/L		90	69 - 122
Benzene	20.0	18.2		ug/L		91	80 - 120
Naphthalene	20.0	16.2		ug/L		81	53 - 124
1,2,4-Trimethylbenzene	20.0	15.6		ug/L		78	75 - 120
Isopropylbenzene	20.0	16.3		ug/L		81	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-160096/4
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: LCSD 410-160096/5
Matrix: Water
Analysis Batch: 160096

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	18.4		ug/L		92	77 - 120	13	30
Ethylbenzene			20.0	18.9		ug/L		94	80 - 120	11	30
1,2-Dichloroethane			20.0	19.9		ug/L		99	73 - 124	12	30
1,3,5-Trimethylbenzene			20.0	17.6		ug/L		88	75 - 120	11	30
Toluene			20.0	18.5		ug/L		93	80 - 120	12	30
Xylenes, Total			60.0	55.7		ug/L		93	80 - 120	11	30
Methyl tertiary butyl ether			20.0	20.4		ug/L		102	69 - 122	12	30
Benzene			20.0	20.4		ug/L		102	80 - 120	11	30
Naphthalene			20.0	17.9		ug/L		89	53 - 124	10	30
1,2,4-Trimethylbenzene			20.0	17.7		ug/L		88	75 - 120	13	30
Isopropylbenzene			20.0	18.2		ug/L		91	80 - 120	11	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-160489/1-A
Matrix: Solid
Analysis Batch: 160678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Chrysene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Fluorene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Phenanthrene	ND		17	4.0	ug/Kg		08/14/21 08:45	08/16/21 10:11	1
Pyrene	ND		17	3.3	ug/Kg		08/14/21 08:45	08/16/21 10:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*08/14/21 08:45*	*08/16/21 10:11*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/14/21 08:45*	*08/16/21 10:11*	*1*
p-Terphenyl-d14 (Surr)	*91*		*45 - 108*	*08/14/21 08:45*	*08/16/21 10:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-160489/2-A
Matrix: Solid
Analysis Batch: 160678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160489

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Anthracene			1670	1380		ug/Kg		83	75 - 120		
Benzo[a]anthracene			1670	1330		ug/Kg		80	73 - 120		
Benzo[a]pyrene			1670	1410		ug/Kg		84	80 - 123		
Benzo[b]fluoranthene			1670	1310		ug/Kg		79	63 - 120		
Benzo[g,h,i]perylene			1670	1370		ug/Kg		82	77 - 120		
Chrysene			1670	1310		ug/Kg		79	66 - 120		
Fluorene			1670	1360		ug/Kg		82	68 - 120		
Phenanthrene			1670	1350		ug/Kg		81	74 - 120		
Pyrene			1670	1320		ug/Kg		79	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*39 - 100*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*

Lab Sample ID: 410-51060-12 MS
Matrix: Solid
Analysis Batch: 161049

Client Sample ID: Pipe 64 (2)
Prep Type: Total/NA
Prep Batch: 160489

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Anthracene	ND		2410	1820		ug/Kg	☼	76	75 - 120		
Benzo[a]anthracene	15	J	2410	1820		ug/Kg	☼	75	73 - 120		
Benzo[a]pyrene	15	J	2410	1770	FL	ug/Kg	☼	73	80 - 123		
Benzo[b]fluoranthene	20	J	2410	1530		ug/Kg	☼	63	63 - 120		
Benzo[g,h,i]perylene	11	J	2410	1740	FL	ug/Kg	☼	72	77 - 120		
Chrysene	15	J	2410	1730		ug/Kg	☼	71	66 - 120		
Fluorene	ND		2410	1880		ug/Kg	☼	78	68 - 120		
Phenanthrene	16	J	2410	1830		ug/Kg	☼	75	74 - 120		
Pyrene	23	J	2410	1800		ug/Kg	☼	74	70 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*
p-Terphenyl-d14 (Surr)	*78*		*45 - 108*

Lab Sample ID: 410-51060-12 MSD
Matrix: Solid
Analysis Batch: 161049

Client Sample ID: Pipe 64 (2)
Prep Type: Total/NA
Prep Batch: 160489

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	ND		2410	1810		ug/Kg	☼	75	75 - 120	1	30
Benzo[a]anthracene	15	J	2410	1780		ug/Kg	☼	73	73 - 120	2	30
Benzo[a]pyrene	15	J	2410	1710	FL	ug/Kg	☼	71	80 - 123	3	30
Benzo[b]fluoranthene	20	J	2410	1510	FL	ug/Kg	☼	62	63 - 120	1	30
Benzo[g,h,i]perylene	11	J	2410	1690	FL	ug/Kg	☼	70	77 - 120	3	30
Chrysene	15	J	2410	1690		ug/Kg	☼	70	66 - 120	3	30
Fluorene	ND		2410	1830		ug/Kg	☼	76	68 - 120	3	30
Phenanthrene	16	J	2410	1790		ug/Kg	☼	74	74 - 120	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-51060-12 MSD
Matrix: Solid
Analysis Batch: 161049

Client Sample ID: Pipe 64 (2)
Prep Type: Total/NA
Prep Batch: 160489

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyrene	23	J	2410	1740		ug/Kg	☼	71	70 - 120	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*
p-Terphenyl-d14 (Surr)	*74*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-160260/1-A
Matrix: Solid
Analysis Batch: 161428

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/13/21 12:16	08/17/21 12:51	1

Lab Sample ID: LCS 410-160260/2-A
Matrix: Solid
Analysis Batch: 161428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.51		mg/Kg		110	80 - 120

Lab Sample ID: 410-51060-3 MS
Matrix: Solid
Analysis Batch: 161428

Client Sample ID: DUP-7
Prep Type: Total/NA
Prep Batch: 160260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	24	FL	6.86	28.7	FL	mg/Kg	☼	67	75 - 125

Lab Sample ID: 410-51060-3 MSD
Matrix: Solid
Analysis Batch: 161428

Client Sample ID: DUP-7
Prep Type: Total/NA
Prep Batch: 160260

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	24	FL	6.25	29.4		mg/Kg	☼	85	75 - 125	3	20

Lab Sample ID: 410-51060-3 DU
Matrix: Solid
Analysis Batch: 161428

Client Sample ID: DUP-7
Prep Type: Total/NA
Prep Batch: 160260

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	24	FL	20.3		mg/Kg	☼	17	20

GC/MS VOA

Analysis Batch: 160096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-15	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-160096/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-160096/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-160096/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Prep Batch: 160178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	5035	
410-51060-2	Pipe 29 (2)	Total/NA	Solid	5035	
410-51060-3 - DL	DUP-7	Total/NA	Solid	5035	
410-51060-3	DUP-7	Total/NA	Solid	5035	
410-51060-4	Pipe 30 (2)	Total/NA	Solid	5035	
410-51060-6	Pipe 44 (2)	Total/NA	Solid	5035	

Prep Batch: 160181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-5	Pipe 4 (2)	Total/NA	Solid	5035	
410-51060-7	1044-P5 (3)	Total/NA	Solid	5035	
410-51060-8	649-P3 (3)	Total/NA	Solid	5035	
410-51060-9	649-P1 (3)	Total/NA	Solid	5035	
410-51060-10	649-P2 (3)	Total/NA	Solid	5035	
410-51060-11	649-P4 (3)	Total/NA	Solid	5035	
410-51060-12	Pipe 64 (2)	Total/NA	Solid	5035	
410-51060-13	Pipe 66 (2)	Total/NA	Solid	5035	
410-51060-14	Pipe 65 (2)	Total/NA	Solid	5035	

Analysis Batch: 160723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-5	Pipe 4 (2)	Total/NA	Solid	8260C	160181
410-51060-8	649-P3 (3)	Total/NA	Solid	8260C	160181
410-51060-9	649-P1 (3)	Total/NA	Solid	8260C	160181
410-51060-10	649-P2 (3)	Total/NA	Solid	8260C	160181
410-51060-11	649-P4 (3)	Total/NA	Solid	8260C	160181
410-51060-12	Pipe 64 (2)	Total/NA	Solid	8260C	160181
410-51060-13	Pipe 66 (2)	Total/NA	Solid	8260C	160181
MB 410-160723/8	Method Blank	Total/NA	Solid	8260C	
LCS 410-160723/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-160723/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 161178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	8260C	160178
410-51060-2	Pipe 29 (2)	Total/NA	Solid	8260C	160178
410-51060-4	Pipe 30 (2)	Total/NA	Solid	8260C	160178
MB 410-161178/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-161178/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-161178/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 161724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-3	DUP-7	Total/NA	Solid	8260C	160178

GC/MS VOA (Continued)

Analysis Batch: 161724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-3 - DL	DUP-7	Total/NA	Solid	8260C	160178
410-51060-6	Pipe 44 (2)	Total/NA	Solid	8260C	160178
MB 410-161724/8	Method Blank	Total/NA	Solid	8260C	
LCS 410-161724/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-161724/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 161737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-14	Pipe 65 (2)	Total/NA	Solid	8260C	160181
MB 410-161737/8	Method Blank	Total/NA	Solid	8260C	
LCS 410-161737/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-161737/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 162254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-7	1044-P5 (3)	Total/NA	Solid	8260C	160181
MB 410-162254/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-162254/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-162254/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 160489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	3546	
410-51060-2	Pipe 29 (2)	Total/NA	Solid	3546	
410-51060-3	DUP-7	Total/NA	Solid	3546	
410-51060-4	Pipe 30 (2)	Total/NA	Solid	3546	
410-51060-5	Pipe 4 (2)	Total/NA	Solid	3546	
410-51060-6	Pipe 44 (2)	Total/NA	Solid	3546	
410-51060-7	1044-P5 (3)	Total/NA	Solid	3546	
410-51060-8	649-P3 (3)	Total/NA	Solid	3546	
410-51060-9	649-P1 (3)	Total/NA	Solid	3546	
410-51060-10	649-P2 (3)	Total/NA	Solid	3546	
410-51060-11	649-P4 (3)	Total/NA	Solid	3546	
410-51060-12	Pipe 64 (2)	Total/NA	Solid	3546	
410-51060-13	Pipe 66 (2)	Total/NA	Solid	3546	
410-51060-14	Pipe 65 (2)	Total/NA	Solid	3546	
MB 410-160489/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-160489/2-A	Lab Control Sample	Total/NA	Solid	3546	
410-51060-12 MS	Pipe 64 (2)	Total/NA	Solid	3546	
410-51060-12 MSD	Pipe 64 (2)	Total/NA	Solid	3546	

Analysis Batch: 160678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	8270D	160489
410-51060-2	Pipe 29 (2)	Total/NA	Solid	8270D	160489
410-51060-3	DUP-7	Total/NA	Solid	8270D	160489
410-51060-4	Pipe 30 (2)	Total/NA	Solid	8270D	160489
410-51060-5	Pipe 4 (2)	Total/NA	Solid	8270D	160489
410-51060-6	Pipe 44 (2)	Total/NA	Solid	8270D	160489

GC/MS Semi VOA (Continued)

Analysis Batch: 160678 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-7	1044-P5 (3)	Total/NA	Solid	8270D	160489
410-51060-8	649-P3 (3)	Total/NA	Solid	8270D	160489
410-51060-9	649-P1 (3)	Total/NA	Solid	8270D	160489
410-51060-10	649-P2 (3)	Total/NA	Solid	8270D	160489
410-51060-11	649-P4 (3)	Total/NA	Solid	8270D	160489
410-51060-12	Pipe 64 (2)	Total/NA	Solid	8270D	160489
MB 410-160489/1-A	Method Blank	Total/NA	Solid	8270D	160489
LCS 410-160489/2-A	Lab Control Sample	Total/NA	Solid	8270D	160489

Analysis Batch: 161049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-13	Pipe 66 (2)	Total/NA	Solid	8270D	160489
410-51060-14	Pipe 65 (2)	Total/NA	Solid	8270D	160489
410-51060-12 MS	Pipe 64 (2)	Total/NA	Solid	8270D	160489
410-51060-12 MSD	Pipe 64 (2)	Total/NA	Solid	8270D	160489

Metals

Prep Batch: 160260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	3050B	
410-51060-2	Pipe 29 (2)	Total/NA	Solid	3050B	
410-51060-3	DUP-7	Total/NA	Solid	3050B	
410-51060-4	Pipe 30 (2)	Total/NA	Solid	3050B	
410-51060-5	Pipe 4 (2)	Total/NA	Solid	3050B	
410-51060-6	Pipe 44 (2)	Total/NA	Solid	3050B	
410-51060-7	1044-P5 (3)	Total/NA	Solid	3050B	
410-51060-8	649-P3 (3)	Total/NA	Solid	3050B	
410-51060-9	649-P1 (3)	Total/NA	Solid	3050B	
410-51060-10	649-P2 (3)	Total/NA	Solid	3050B	
410-51060-11	649-P4 (3)	Total/NA	Solid	3050B	
410-51060-12	Pipe 64 (2)	Total/NA	Solid	3050B	
410-51060-13	Pipe 66 (2)	Total/NA	Solid	3050B	
410-51060-14	Pipe 65 (2)	Total/NA	Solid	3050B	
MB 410-160260/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-160260/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-51060-3 MS	DUP-7	Total/NA	Solid	3050B	
410-51060-3 MSD	DUP-7	Total/NA	Solid	3050B	
410-51060-3 DU	DUP-7	Total/NA	Solid	3050B	

Analysis Batch: 161428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	6010C	160260
410-51060-2	Pipe 29 (2)	Total/NA	Solid	6010C	160260
410-51060-3	DUP-7	Total/NA	Solid	6010C	160260
410-51060-4	Pipe 30 (2)	Total/NA	Solid	6010C	160260
410-51060-5	Pipe 4 (2)	Total/NA	Solid	6010C	160260
410-51060-6	Pipe 44 (2)	Total/NA	Solid	6010C	160260
410-51060-7	1044-P5 (3)	Total/NA	Solid	6010C	160260
410-51060-8	649-P3 (3)	Total/NA	Solid	6010C	160260
410-51060-9	649-P1 (3)	Total/NA	Solid	6010C	160260

Metals (Continued)

Analysis Batch: 161428 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-10	649-P2 (3)	Total/NA	Solid	6010C	160260
410-51060-11	649-P4 (3)	Total/NA	Solid	6010C	160260
410-51060-12	Pipe 64 (2)	Total/NA	Solid	6010C	160260
410-51060-13	Pipe 66 (2)	Total/NA	Solid	6010C	160260
410-51060-14	Pipe 65 (2)	Total/NA	Solid	6010C	160260
MB 410-160260/1-A	Method Blank	Total/NA	Solid	6010C	160260
LCS 410-160260/2-A	Lab Control Sample	Total/NA	Solid	6010C	160260
410-51060-3 MS	DUP-7	Total/NA	Solid	6010C	160260
410-51060-3 MSD	DUP-7	Total/NA	Solid	6010C	160260
410-51060-3 DU	DUP-7	Total/NA	Solid	6010C	160260

General Chemistry

Analysis Batch: 160139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51060-1	Pipe 27 (2)	Total/NA	Solid	Moisture	
410-51060-2	Pipe 29 (2)	Total/NA	Solid	Moisture	
410-51060-3	DUP-7	Total/NA	Solid	Moisture	
410-51060-4	Pipe 30 (2)	Total/NA	Solid	Moisture	
410-51060-5	Pipe 4 (2)	Total/NA	Solid	Moisture	
410-51060-6	Pipe 44 (2)	Total/NA	Solid	Moisture	
410-51060-7	1044-P5 (3)	Total/NA	Solid	Moisture	
410-51060-8	649-P3 (3)	Total/NA	Solid	Moisture	
410-51060-9	649-P1 (3)	Total/NA	Solid	Moisture	
410-51060-10	649-P2 (3)	Total/NA	Solid	Moisture	
410-51060-11	649-P4 (3)	Total/NA	Solid	Moisture	
410-51060-12	Pipe 64 (2)	Total/NA	Solid	Moisture	
410-51060-13	Pipe 66 (2)	Total/NA	Solid	Moisture	
410-51060-14	Pipe 65 (2)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Client Sample ID: Pipe 27 (2)

Lab Sample ID: 410-51060-1

Date Collected: 08/11/21 13:00

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 27 (2)

Lab Sample ID: 410-51060-1

Date Collected: 08/11/21 13:00

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 72.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160178	08/13/21 10:25	JJT8	ELLE
Total/NA	Analysis	8260C		50	161178	08/17/21 18:15	SWV2	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 15:48	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:17	WJM9	ELLE

Client Sample ID: Pipe 29 (2)

Lab Sample ID: 410-51060-2

Date Collected: 08/11/21 13:15

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 29 (2)

Lab Sample ID: 410-51060-2

Date Collected: 08/11/21 13:15

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 59.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160178	08/13/21 10:25	JJT8	ELLE
Total/NA	Analysis	8260C		50	161178	08/17/21 18:36	SWV2	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 16:11	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:20	WJM9	ELLE

Client Sample ID: DUP-7

Lab Sample ID: 410-51060-3

Date Collected: 08/11/21 00:00

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: DUP-7

Lab Sample ID: 410-51060-3

Date Collected: 08/11/21 00:00

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 59.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160178	08/13/21 10:25	JJT8	ELLE
Total/NA	Analysis	8260C		50	161724	08/18/21 18:45	USEJ	ELLE
Total/NA	Prep	5035	DL		160178	08/13/21 10:25	JJT8	ELLE
Total/NA	Analysis	8260C	DL	500	161724	08/18/21 19:06	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 16:33	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 12:57	WJM9	ELLE

Client Sample ID: Pipe 30 (2)

Lab Sample ID: 410-51060-4

Date Collected: 08/11/21 13:40

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 30 (2)

Lab Sample ID: 410-51060-4

Date Collected: 08/11/21 13:40

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 54.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160178	08/13/21 10:25	JJT8	ELLE
Total/NA	Analysis	8260C		50	161178	08/17/21 19:18	SWV2	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 16:56	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:29	WJM9	ELLE

Client Sample ID: Pipe 4 (2)

Lab Sample ID: 410-51060-5

Date Collected: 08/11/21 13:55

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 4 (2)

Lab Sample ID: 410-51060-5

Date Collected: 08/11/21 13:55

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 19:53	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 17:18	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:32	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Client Sample ID: Pipe 44 (2)

Lab Sample ID: 410-51060-6

Date Collected: 08/11/21 14:40

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 44 (2)

Lab Sample ID: 410-51060-6

Date Collected: 08/11/21 14:40

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 53.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160178	08/13/21 10:25	JJT8	ELLE
Total/NA	Analysis	8260C		50	161724	08/18/21 19:26	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 17:40	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 14:07	WJM9	ELLE

Client Sample ID: 1044-P5 (3)

Lab Sample ID: 410-51060-7

Date Collected: 08/12/21 09:00

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: 1044-P5 (3)

Lab Sample ID: 410-51060-7

Date Collected: 08/12/21 09:00

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 69.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	162254	08/19/21 14:46	UCB5	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 18:03	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:45	WJM9	ELLE

Client Sample ID: 649-P3 (3)

Lab Sample ID: 410-51060-8

Date Collected: 08/12/21 09:30

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: 649-P3 (3)

Lab Sample ID: 410-51060-8

Date Collected: 08/12/21 09:30

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 16:48	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 18:25	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:42	WJM9	ELLE

Client Sample ID: 649-P1 (3)

Lab Sample ID: 410-51060-9

Date Collected: 08/12/21 09:50

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: 649-P1 (3)

Lab Sample ID: 410-51060-9

Date Collected: 08/12/21 09:50

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 63.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 20:16	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 18:48	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:39	WJM9	ELLE

Client Sample ID: 649-P2 (3)

Lab Sample ID: 410-51060-10

Date Collected: 08/12/21 10:05

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: 649-P2 (3)

Lab Sample ID: 410-51060-10

Date Collected: 08/12/21 10:05

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 20:39	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 19:10	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:36	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Client Sample ID: 649-P4 (3)

Lab Sample ID: 410-51060-11

Date Collected: 08/12/21 10:30

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: 649-P4 (3)

Lab Sample ID: 410-51060-11

Date Collected: 08/12/21 10:30

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 17:57	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 19:33	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:58	WJM9	ELLE

Client Sample ID: Pipe 64 (2)

Lab Sample ID: 410-51060-12

Date Collected: 08/12/21 10:45

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 64 (2)

Lab Sample ID: 410-51060-12

Date Collected: 08/12/21 10:45

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 68.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 21:02	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	160678	08/16/21 19:55	SJ89	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:55	WJM9	ELLE

Client Sample ID: Pipe 66 (2)

Lab Sample ID: 410-51060-13

Date Collected: 08/12/21 11:10

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 66 (2)

Lab Sample ID: 410-51060-13

Date Collected: 08/12/21 11:10

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	160723	08/16/21 21:25	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	161049	08/17/21 00:40	ULM3	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:52	WJM9	ELLE

Client Sample ID: Pipe 65 (2)

Lab Sample ID: 410-51060-14

Date Collected: 08/12/21 11:20

Matrix: Solid

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160139	08/13/21 09:24	UVJN	ELLE

Client Sample ID: Pipe 65 (2)

Lab Sample ID: 410-51060-14

Date Collected: 08/12/21 11:20

Matrix: Solid

Date Received: 08/12/21 17:42

Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160181	08/13/21 10:27	JJT8	ELLE
Total/NA	Analysis	8260C		1	161737	08/18/21 18:37	USEJ	ELLE
Total/NA	Prep	3546			160489	08/14/21 08:45	U9KU	ELLE
Total/NA	Analysis	8270D		1	161049	08/17/21 01:02	ULM3	ELLE
Total/NA	Prep	3050B			160260	08/13/21 12:16	UJLA	ELLE
Total/NA	Analysis	6010C		1	161428	08/17/21 13:49	WJM9	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-51060-15

Date Collected: 08/12/21 00:00

Matrix: Water

Date Received: 08/12/21 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	160096	08/13/21 11:24	UKAD	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51060-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-51060-1	Pipe 27 (2)	Solid	08/11/21 13:00	08/12/21 17:42
410-51060-2	Pipe 29 (2)	Solid	08/11/21 13:15	08/12/21 17:42
410-51060-3	DUP-7	Solid	08/11/21 00:00	08/12/21 17:42
410-51060-4	Pipe 30 (2)	Solid	08/11/21 13:40	08/12/21 17:42
410-51060-5	Pipe 4 (2)	Solid	08/11/21 13:55	08/12/21 17:42
410-51060-6	Pipe 44 (2)	Solid	08/11/21 14:40	08/12/21 17:42
410-51060-7	1044-P5 (3)	Solid	08/12/21 09:00	08/12/21 17:42
410-51060-8	649-P3 (3)	Solid	08/12/21 09:30	08/12/21 17:42
410-51060-9	649-P1 (3)	Solid	08/12/21 09:50	08/12/21 17:42
410-51060-10	649-P2 (3)	Solid	08/12/21 10:05	08/12/21 17:42
410-51060-11	649-P4 (3)	Solid	08/12/21 10:30	08/12/21 17:42
410-51060-12	Pipe 64 (2)	Solid	08/12/21 10:45	08/12/21 17:42
410-51060-13	Pipe 66 (2)	Solid	08/12/21 11:10	08/12/21 17:42
410-51060-14	Pipe 65 (2)	Solid	08/12/21 11:20	08/12/21 17:42
410-51060-15	Trip Blank	Water	08/12/21 00:00	08/12/21 17:42

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-51060 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: IA/DH/TM	Lab PM: Carter, Amek A	COC No: 410-31049-9562 5
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 5 of 8
Company: Stantec Consulting Corp	PWSID:		Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:		
City: West Chester	TAT Requested (days): 5 day		
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No		
Phone:	PO #: Purchase Order Requested		
Email: mark.schaeffer@stantec.com	WO #:		
Project Name: PBF Logistics	Project #: 41007459		
Site: 51st Street Terminal	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A		
Pipe 27 (2)	8/11/21	1300	G	Solid			X	X			
Pipe 29 (2)	8/11/21	1315	G	Solid			X	X			
DUP-7	8/11/21	—	G	Solid			X	X			
Pipe 30 (2)	8/11/21	1340	G	Solid			X	X			
Pipe 4 (2)	8/11/21	1355	G	Solid			X	X			
Pipe 44 (2)	8/11/21	1440	G	Solid			X	X			
1044-P5 (3)	8/12/21	0900	G	Solid			X	X			
649-P3 (3)	8/12/21	0930	G	Solid			X	X			
649-P1 (3)	8/12/21	0950	G	Solid			X	X			
649-P2 (3)	8/12/21	1005	G	Solid			X	X			
649-P4 (3)	8/12/21	1030	G	Solid			X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	8/12/21 1135		Received by	8/12/21 11:35	
Relinquished by	8/12/21 17		Received by		
Relinquished by			Received by	8-12-21 1742	ECG

Custody Seals Intact: Δ Yes Δ No
Custody Seal No:
Cooler Temperature(s) °C and Other Remarks: 3.1°C

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: DH / TM	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-30583-9562 5
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran Carter@eurofinset.com	State of Origin: PA	Page: Page 5 of 5
Company: Stantec Consulting Corp.	PWSID:	Analysis Requested		Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			Other:
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F				
Pipe 04 (2)	8/12/21	1045	G	S			X	X			
Pipe 06 (2)	8/12/21	1110	G	S			X	X			
Pipe 05 (2)	8/12/21	1120	G	S			X	X			
Trip Blank	8/12/21	—	G	W			~~X~~ (DH)	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/12/21 1135	Stantec	Pierre	8/12/21 11:35	
2	Pierre	8/12/21 17:30				
3				[signature]	8-12-21 1742	ECLC

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.1°C

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-51060-1

Login Number: 51060

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Knoedler, Christine M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-51318-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
8/27/2021 10:18:12 AM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
8/27/2021 10:18:12 AM

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Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
^c	CCV Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-51318-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-51318-1

Receipt
The samples were received on 8/13/2021 6:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: Pipe 62 (2) (410-51318-2), 1044-P1 (3) (410-51318-3) and 649-P5 (3) (410-51318-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: 2045-P4 (3) (410-51318-8). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) analyzed on 410-162756 is compliant under 8260C/D method criteria for Isopropylbenzene. The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

Method 8260C: The continuing calibration verification (CCV) associated with batch 410-162756 recovered outside acceptance criteria, low biased, for 1,3,5-Trimethylbenzene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: 1044-P3 (3) (410-51318-4). The sample(s) was re-analyzed and ISTD response was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Client Sample ID: Pipe 63 (2) — Lab Sample ID: 410-51318-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	5.8	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	8.4	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	8.2	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	19	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	23		23	4.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	13	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	19	J	23	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	13	J	23	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	70		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 62 (2) — Lab Sample ID: 410-51318-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	39		22	4.5	ug/Kg	1	☼	8270D	Total/NA
Lead	29		1.8	0.72	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1044-P1 (3) — Lab Sample ID: 410-51318-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	9.5	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	18	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	18	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	25		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	17	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	20	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	28		21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	25		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	90		1.7	0.68	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1044-P3 (3) — Lab Sample ID: 410-51318-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	50		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	180		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	330		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	220		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Chrysene	250		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	160		25	6.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	320		25	5.0	ug/Kg	1	☼	8270D	Total/NA
Lead	810		1.9	0.76	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 649-P5 (3) — Lab Sample ID: 410-51318-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	10	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	11	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	20	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	15	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	15	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	17	J	21	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	16	J	21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	270		1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Client Sample ID: 1044-P2 (3) — Lab Sample ID: 410-51318-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.5	J	7.1	0.85	ug/Kg	1	☼	8260C	Total/NA
Benzene	3.6	J	7.1	0.71	ug/Kg	1	☼	8260C	Total/NA
Anthracene	28		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	180		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	230		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	160		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	180		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	8.5	J	23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	110		23	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	200		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	380		2.0	0.81	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2045-P2 (3) — Lab Sample ID: 410-51318-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	3.3	J	7.0	0.84	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.4	J	7.0	0.70	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.2	J	7.0	0.70	ug/Kg	1	☼	8260C	Total/NA
Anthracene	8.7	J	24	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	8.5	J	24	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	13	J	24	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	21	J	24	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	13	J	24	4.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	19	J	24	4.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	30		24	4.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	64		24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	30		24	4.9	ug/Kg	1	☼	8270D	Total/NA
Lead	29		2.2	0.87	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2045-P4 (3) — Lab Sample ID: 410-51318-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	66	J	690	55	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	230	J	690	69	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	370	J	1400	190	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	520	J	690	69	ug/Kg	50	☼	8260C	Total/NA
Benzo[a]anthracene	9.9	J	30	6.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	9.6	J	30	6.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.3	J	30	6.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	33		30	6.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	410		30	6.1	ug/Kg	1	☼	8270D	Total/NA
Lead	75		2.2	0.88	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2045-P5 (3) — Lab Sample ID: 410-51318-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	670		590	47	ug/Kg	50	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	15000		590	59	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	6800		1200	170	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	13000		590	240	ug/Kg	50	☼	8260C	Total/NA
Isopropylbenzene	1500		590	47	ug/Kg	50	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2045-P5 (3) (Continued) — Lab Sample ID: 410-51318-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene - DL	33000		5900	590	ug/Kg	500	☼	8260C	Total/NA
Benzo[a]anthracene	11	J	28	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	8.0	J	28	5.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	37		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	520		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	5000		28	6.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	470		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Lead	210		1.9	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 43 (2) — Lab Sample ID: 410-51318-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	7.6	J	8.9	0.89	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	15		8.9	0.89	ug/Kg	1	☼	8260C	Total/NA
Anthracene	17	J	49	9.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	40	J	49	9.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	37	J	49	9.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	57		49	9.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	39	J	49	9.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	51		49	9.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	87		49	12	ug/Kg	1	☼	8270D	Total/NA
Pyrene	72		49	9.7	ug/Kg	1	☼	8270D	Total/NA
Lead	60		1.8	0.71	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 42 (2) — Lab Sample ID: 410-51318-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	41		9.1	0.73	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.96	J	9.1	0.91	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.2	J	9.1	1.1	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	330		18	2.5	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.4	J	9.1	0.91	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	1.4	J	9.1	0.73	ug/Kg	1	☼	8260C	Total/NA
Anthracene	31		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	45		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	41		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	66		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	41		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	80		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	120		26	6.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	72		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Lead	110		2.1	0.82	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Pipe 41 (2) — Lab Sample ID: 410-51318-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	22	J	29	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	22	J	29	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	25	J	29	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	46		29	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	25	J	29	5.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	46		29	5.7	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 41 (2) (Continued)

Lab Sample ID: 410-51318-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	8.6	J	29	5.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	67		29	6.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	63		29	5.7	ug/Kg	1	☼	8270D	Total/NA
Lead	120		1.9	0.77	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-51318-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: Pipe 63 (2)

Lab Sample ID: 410-51318-1

Date Collected: 08/12/21 11:40

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 72.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	0.80	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
1,2-Dichloroethane	ND		10	1.2	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
1,3,5-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
Toluene	ND		10	1.2	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
Xylenes, Total	ND		20	2.8	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
Methyl tertiary butyl ether	ND		10	1.0	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
Benzene	ND		10	1.0	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
Naphthalene	ND		10	4.0	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
1,2,4-Trimethylbenzene	ND		10	1.0	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
Isopropylbenzene	ND		10	0.80	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1
1,2-Dibromoethane	ND		10	0.80	ug/Kg	☼	08/16/21 09:56	08/22/21 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/16/21 09:56*	*08/22/21 20:32*	*1*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*	*08/16/21 09:56*	*08/22/21 20:32*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/16/21 09:56*	*08/22/21 20:32*	*1*
Toluene-d8 (Surr)	*102*		*52 - 141*	*08/16/21 09:56*	*08/22/21 20:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**5.8**	**J**	23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Benzo[a]anthracene	**8.4**	**J**	23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Benzo[a]pyrene	**8.2**	**J**	23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Benzo[b]fluoranthene	**19**	**J**	23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Benzo[g,h,i]perylene	**23**		23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Chrysene	**13**	**J**	23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Fluorene	ND		23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Phenanthrene	**19**	**J**	23	5.4	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1
Pyrene	**13**	**J**	23	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/18/21 10:11*	*08/21/21 17:38*	*1*
Nitrobenzene-d5 (Surr)	*62*		*32 - 97*	*08/18/21 10:11*	*08/21/21 17:38*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*08/18/21 10:11*	*08/21/21 17:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**70**		1.6	0.64	mg/Kg	☼	08/16/21 03:44	08/16/21 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.1**		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: Pipe 62 (2)

Lab Sample ID: 410-51318-2

Date Collected: 08/12/21 11:50

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 73.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		580	46	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
1,2-Dichloroethane	ND		580	70	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50

Client Sample ID: Pipe 62 (2)

Lab Sample ID: 410-51318-2

Date Collected: 08/12/21 11:50
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 73.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		580	58	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
Toluene	ND		580	70	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
Xylenes, Total	ND		1200	160	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
Methyl tertiary butyl ether	ND		580	58	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
Benzene	ND		580	58	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
Naphthalene	ND		580	230	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
1,2,4-Trimethylbenzene	ND		580	58	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
Isopropylbenzene	ND		580	46	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50
1,2-Dibromoethane	ND		580	46	ug/Kg	☼	08/16/21 10:50	08/23/21 16:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*54 - 135*	*08/16/21 10:50*	*08/23/21 16:47*	*50*
4-Bromofluorobenzene (Surr)	*71*		*50 - 131*	*08/16/21 10:50*	*08/23/21 16:47*	*50*
Dibromofluoromethane (Surr)	*73*		*50 - 141*	*08/16/21 10:50*	*08/23/21 16:47*	*50*
Toluene-d8 (Surr)	*70*		*52 - 141*	*08/16/21 10:50*	*08/23/21 16:47*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Benzo[a]anthracene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Benzo[a]pyrene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Benzo[b]fluoranthene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Benzo[g,h,i]perylene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Chrysene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Fluorene	ND		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Phenanthrene	ND		22	5.4	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1
Pyrene	**39**		22	4.5	ug/Kg	☼	08/18/21 10:11	08/21/21 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*39 - 100*	*08/18/21 10:11*	*08/21/21 18:02*	*1*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*	*08/18/21 10:11*	*08/21/21 18:02*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*08/18/21 10:11*	*08/21/21 18:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**29**		1.8	0.72	mg/Kg	☼	08/16/21 03:44	08/16/21 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26.5**		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: 1044-P1 (3)

Lab Sample ID: 410-51318-3

Date Collected: 08/12/21 12:00
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 78.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		450	36	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
1,2-Dichloroethane	ND		450	53	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
1,3,5-Trimethylbenzene	ND		450	45	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
Toluene	ND		450	53	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50

Client Sample ID: 1044-P1 (3)

Lab Sample ID: 410-51318-3

Date Collected: 08/12/21 12:00
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 78.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		890	120	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
Methyl tertiary butyl ether	ND		450	45	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
Benzene	ND		450	45	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
Naphthalene	ND		450	180	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
1,2,4-Trimethylbenzene	ND		450	45	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
Isopropylbenzene	ND		450	36	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50
1,2-Dibromoethane	ND		450	36	ug/Kg	☼	08/16/21 10:50	08/23/21 17:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*71*		*54 - 135*	*08/16/21 10:50*	*08/23/21 17:09*	*50*
4-Bromofluorobenzene (Surr)	*60*		*50 - 131*	*08/16/21 10:50*	*08/23/21 17:09*	*50*
Dibromofluoromethane (Surr)	*69*		*50 - 141*	*08/16/21 10:50*	*08/23/21 17:09*	*50*
Toluene-d8 (Surr)	*65*		*52 - 141*	*08/16/21 10:50*	*08/23/21 17:09*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**9.5**	**J**	21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Benzo[a]anthracene	**18**	**J**	21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Benzo[a]pyrene	**18**	**J**	21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Benzo[b]fluoranthene	**25**		21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Benzo[g,h,i]perylene	**17**	**J**	21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Chrysene	**20**	**J**	21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Phenanthrene	**28**		21	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1
Pyrene	**25**		21	4.2	ug/Kg	☼	08/18/21 10:11	08/21/21 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*08/18/21 10:11*	*08/21/21 18:25*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/18/21 10:11*	*08/21/21 18:25*	*1*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*	*08/18/21 10:11*	*08/21/21 18:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**90**		1.7	0.68	mg/Kg	☼	08/16/21 03:44	08/16/21 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.4**		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: 1044-P3 (3)

Lab Sample ID: 410-51318-4

Date Collected: 08/12/21 12:30
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 65.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.5	0.60	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
1,2-Dichloroethane	ND		7.5	0.90	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
1,3,5-Trimethylbenzene	ND	^c *3	7.5	0.75	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
Toluene	ND		7.5	0.90	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
Xylenes, Total	ND		15	2.1	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
Methyl tertiary butyl ether	ND		7.5	0.75	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1

Client Sample ID: 1044-P3 (3)

Lab Sample ID: 410-51318-4

Date Collected: 08/12/21 12:30
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 65.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		7.5	0.75	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
Naphthalene	ND	*3	7.5	3.0	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
1,2,4-Trimethylbenzene	ND	*3	7.5	0.75	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
Isopropylbenzene	ND	^c	7.5	0.60	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1
1,2-Dibromoethane	ND		7.5	0.60	ug/Kg	☼	08/16/21 09:56	08/20/21 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*54 - 135*	*08/16/21 09:56*	*08/20/21 15:18*	*1*
4-Bromofluorobenzene (Surr)	*78*		*50 - 131*	*08/16/21 09:56*	*08/20/21 15:18*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/16/21 09:56*	*08/20/21 15:18*	*1*
Toluene-d8 (Surr)	*107*		*52 - 141*	*08/16/21 09:56*	*08/20/21 15:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**50**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Benzo[a]anthracene	**180**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Benzo[a]pyrene	**200**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Benzo[b]fluoranthene	**330**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Benzo[g,h,i]perylene	**220**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Chrysene	**250**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Fluorene	ND		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Phenanthrene	**160**		25	6.1	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1
Pyrene	**320**		25	5.0	ug/Kg	☼	08/18/21 10:11	08/21/21 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*08/18/21 10:11*	*08/21/21 18:48*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/18/21 10:11*	*08/21/21 18:48*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*08/18/21 10:11*	*08/21/21 18:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**810**		1.9	0.76	mg/Kg	☼	08/16/21 03:44	08/16/21 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**34.8**		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: 649-P5 (3)

Lab Sample ID: 410-51318-5

Date Collected: 08/13/21 09:20
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		460	37	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
1,2-Dichloroethane	ND		460	55	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
1,3,5-Trimethylbenzene	ND		460	46	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
Toluene	ND		460	55	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
Xylenes, Total	ND		910	130	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
Methyl tertiary butyl ether	ND		460	46	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
Benzene	ND		460	46	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
Naphthalene	ND		460	180	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50

Client Sample ID: 649-P5 (3)

Date Collected: 08/13/21 09:20
Date Received: 08/13/21 18:00

Lab Sample ID: 410-51318-5

Matrix: Solid
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		460	46	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
Isopropylbenzene	ND		460	37	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50
1,2-Dibromoethane	ND		460	37	ug/Kg	☼	08/16/21 10:50	08/23/21 17:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*66*		*54 - 135*	*08/16/21 10:50*	*08/23/21 17:32*	*50*
4-Bromofluorobenzene (Surr)	*55*		*50 - 131*	*08/16/21 10:50*	*08/23/21 17:32*	*50*
Dibromofluoromethane (Surr)	*63*		*50 - 141*	*08/16/21 10:50*	*08/23/21 17:32*	*50*
Toluene-d8 (Surr)	*59*		*52 - 141*	*08/16/21 10:50*	*08/23/21 17:32*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Benzo[a]anthracene	**10**	**J**	21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Benzo[a]pyrene	**11**	**J**	21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Benzo[b]fluoranthene	**20**	**J**	21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Benzo[g,h,i]perylene	**15**	**J**	21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Chrysene	**15**	**J**	21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Fluorene	ND		21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Phenanthrene	**17**	**J**	21	5.0	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1
Pyrene	**16**	**J**	21	4.2	ug/Kg	☼	08/20/21 17:42	08/23/21 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*39 - 100*	*08/20/21 17:42*	*08/23/21 15:40*	*1*
Nitrobenzene-d5 (Surr)	*56*		*32 - 97*	*08/20/21 17:42*	*08/23/21 15:40*	*1*
p-Terphenyl-d14 (Surr)	*68*		*45 - 108*	*08/20/21 17:42*	*08/23/21 15:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**270**		1.5	0.59	mg/Kg	☼	08/16/21 03:44	08/16/21 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.8**		1.0	1.0	%			08/16/21 09:32	1

Client Sample ID: 1044-P2 (3)

Date Collected: 08/13/21 09:00
Date Received: 08/13/21 18:00

Lab Sample ID: 410-51318-6

Matrix: Solid
Percent Solids: 72.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.1	0.57	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
1,2-Dichloroethane	ND		7.1	0.85	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
1,3,5-Trimethylbenzene	ND		7.1	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
Toluene	**1.5**	**J**	7.1	0.85	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
Xylenes, Total	ND		14	2.0	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
Methyl tertiary butyl ether	ND		7.1	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
Benzene	**3.6**	**J**	7.1	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
Naphthalene	ND		7.1	2.8	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
1,2,4-Trimethylbenzene	ND		7.1	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1
Isopropylbenzene	ND		7.1	0.57	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1

Client Sample ID: 1044-P2 (3)

Lab Sample ID: 410-51318-6

Date Collected: 08/13/21 09:00
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 72.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		7.1	0.57	ug/Kg	☼	08/16/21 09:56	08/22/21 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*54 - 135*	*08/16/21 09:56*	*08/22/21 21:40*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*08/16/21 09:56*	*08/22/21 21:40*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*08/16/21 09:56*	*08/22/21 21:40*	*1*
Toluene-d8 (Surr)	*99*		*52 - 141*	*08/16/21 09:56*	*08/22/21 21:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**28**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Benzo[a]anthracene	**180**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Benzo[a]pyrene	**200**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Benzo[b]fluoranthene	**230**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Benzo[g,h,i]perylene	**160**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Chrysene	**180**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Fluorene	**8.5**	**J**	23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Phenanthrene	**110**		23	5.5	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1
Pyrene	**200**		23	4.6	ug/Kg	☼	08/20/21 17:42	08/23/21 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*08/20/21 17:42*	*08/23/21 16:02*	*1*
Nitrobenzene-d5 (Surr)	*65*		*32 - 97*	*08/20/21 17:42*	*08/23/21 16:02*	*1*
p-Terphenyl-d14 (Surr)	*90*		*45 - 108*	*08/20/21 17:42*	*08/23/21 16:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**380**		2.0	0.81	mg/Kg	☼	08/16/21 03:44	08/16/21 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.0**		1.0	1.0	%			08/16/21 09:32	1

Client Sample ID: 2045-P2 (3)

Lab Sample ID: 410-51318-7

Date Collected: 08/13/21 09:50
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 67.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.0	0.56	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
1,2-Dichloroethane	ND		7.0	0.84	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
1,3,5-Trimethylbenzene	ND	^c	7.0	0.70	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
Toluene	**3.3**	**J**	7.0	0.84	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
Xylenes, Total	ND		14	2.0	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
Methyl tertiary butyl ether	ND		7.0	0.70	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
Benzene	**1.4**	**J**	7.0	0.70	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
Naphthalene	ND		7.0	2.8	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
1,2,4-Trimethylbenzene	**1.2**	**J**	7.0	0.70	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
Isopropylbenzene	ND	^c	7.0	0.56	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1
1,2-Dibromoethane	ND		7.0	0.56	ug/Kg	☼	08/16/21 09:56	08/20/21 19:09	1

Client Sample ID: 2045-P2 (3)

Date Collected: 08/13/21 09:50
Date Received: 08/13/21 18:00

Lab Sample ID: 410-51318-7

Matrix: Solid
Percent Solids: 67.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		54 - 135	08/16/21 09:56	08/20/21 19:09	1
4-Bromofluorobenzene (Surr)	85		50 - 131	08/16/21 09:56	08/20/21 19:09	1
Dibromofluoromethane (Surr)	106		50 - 141	08/16/21 09:56	08/20/21 19:09	1
Toluene-d8 (Surr)	106		52 - 141	08/16/21 09:56	08/20/21 19:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	8.7	J	24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Benzo[a]anthracene	8.5	J	24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Benzo[a]pyrene	13	J	24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Benzo[b]fluoranthene	21	J	24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Benzo[g,h,i]perylene	13	J	24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Chrysene	19	J	24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Fluorene	30		24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Phenanthrene	64		24	5.8	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1
Pyrene	30		24	4.9	ug/Kg	☼	08/20/21 17:42	08/23/21 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	89		39 - 100	08/20/21 17:42	08/23/21 16:24	1
Nitrobenzene-d5 (Surr)	71		32 - 97	08/20/21 17:42	08/23/21 16:24	1
p-Terphenyl-d14 (Surr)	87		45 - 108	08/20/21 17:42	08/23/21 16:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	29		2.2	0.87	mg/Kg	☼	08/16/21 03:44	08/16/21 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	32.1		1.0	1.0	%			08/16/21 09:32	1

Client Sample ID: 2045-P4 (3)

Date Collected: 08/13/21 10:15
Date Received: 08/13/21 18:00

Lab Sample ID: 410-51318-8

Matrix: Solid
Percent Solids: 54.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	66	J	690	55	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
1,2-Dichloroethane	ND		690	82	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
1,3,5-Trimethylbenzene	230	J	690	69	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
Toluene	ND		690	82	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
Xylenes, Total	370	J	1400	190	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
Methyl tertiary butyl ether	ND		690	69	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
Benzene	ND		690	69	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
Naphthalene	ND		690	270	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
1,2,4-Trimethylbenzene	520	J	690	69	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
Isopropylbenzene	ND		690	55	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50
1,2-Dibromoethane	ND		690	55	ug/Kg	☼	08/16/21 10:50	08/24/21 13:55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		54 - 135	08/16/21 10:50	08/24/21 13:55	50
4-Bromofluorobenzene (Surr)	77		50 - 131	08/16/21 10:50	08/24/21 13:55	50
Dibromofluoromethane (Surr)	51		50 - 141	08/16/21 10:50	08/24/21 13:55	50

Client Sample ID: 2045-P4 (3)

Lab Sample ID: 410-51318-8

Date Collected: 08/13/21 10:15
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 54.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*73*		*52 - 141*	*08/16/21 10:50*	*08/24/21 13:55*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Benzo[a]anthracene	**9.9**	**J**	30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Benzo[a]pyrene	ND		30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Benzo[b]fluoranthene	**9.6**	**J**	30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Benzo[g,h,i]perylene	**8.3**	**J**	30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Chrysene	**33**		30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Fluorene	ND		30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Phenanthrene	ND		30	7.3	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1
Pyrene	**410**		30	6.1	ug/Kg	☼	08/20/21 17:42	08/23/21 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*39 - 100*	*08/20/21 17:42*	*08/23/21 16:46*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*08/20/21 17:42*	*08/23/21 16:46*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/20/21 17:42*	*08/23/21 16:46*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**75**		2.2	0.88	mg/Kg	☼	08/16/21 03:44	08/16/21 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**45.3**		1.0	1.0	%			08/16/21 09:32	1

Client Sample ID: 2045-P5 (3)

Lab Sample ID: 410-51318-9

Date Collected: 08/13/21 10:40
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 58.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**670**		590	47	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
1,2-Dichloroethane	ND		590	71	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
1,3,5-Trimethylbenzene	**15000**		590	59	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
Toluene	ND		590	71	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
Xylenes, Total	**6800**		1200	170	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
Methyl tertiary butyl ether	ND		590	59	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
Benzene	ND		590	59	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
Naphthalene	**13000**		590	240	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
Isopropylbenzene	**1500**		590	47	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50
1,2-Dibromoethane	ND		590	47	ug/Kg	☼	08/16/21 10:50	08/23/21 18:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*54 - 135*	*08/16/21 10:50*	*08/23/21 18:16*	*50*
4-Bromofluorobenzene (Surr)	*76*		*50 - 131*	*08/16/21 10:50*	*08/23/21 18:16*	*50*
Dibromofluoromethane (Surr)	*0*	*S1-*	*50 - 141*	*08/16/21 10:50*	*08/23/21 18:16*	*50*
Toluene-d8 (Surr)	*72*		*52 - 141*	*08/16/21 10:50*	*08/23/21 18:16*	*50*

Client Sample ID: 2045-P5 (3)

Lab Sample ID: 410-51318-9

Date Collected: 08/13/21 10:40
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 58.1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**33000**		5900	590	ug/Kg	☼	08/16/21 10:50	08/24/21 14:36	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*47*	*S1-*	*54 - 135*	*08/16/21 10:50*	*08/24/21 14:36*	*500*
4-Bromofluorobenzene (Surr)	*70*		*50 - 131*	*08/16/21 10:50*	*08/24/21 14:36*	*500*
Dibromofluoromethane (Surr)	*0*	*S1-*	*50 - 141*	*08/16/21 10:50*	*08/24/21 14:36*	*500*
Toluene-d8 (Surr)	*43*	*S1-*	*52 - 141*	*08/16/21 10:50*	*08/24/21 14:36*	*500*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Benzo[a]anthracene	**11**	**J**	28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Benzo[a]pyrene	ND		28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Benzo[b]fluoranthene	**8.0**	**J**	28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Benzo[g,h,i]perylene	ND		28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Chrysene	**37**		28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Fluorene	**520**		28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Phenanthrene	**5000**		28	6.8	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1
Pyrene	**470**		28	5.7	ug/Kg	☼	08/20/21 17:42	08/23/21 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*53*		*39 - 100*	*08/20/21 17:42*	*08/23/21 17:08*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/20/21 17:42*	*08/23/21 17:08*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*08/20/21 17:42*	*08/23/21 17:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**210**		1.9	0.78	mg/Kg	☼	08/16/21 03:44	08/16/21 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**41.9**		1.0	1.0	%			08/16/21 09:32	1

Client Sample ID: Pipe 43 (2)

Lab Sample ID: 410-51318-10

Date Collected: 08/13/21 11:05
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 60.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.9	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
1,2-Dichloroethane	ND		8.9	1.1	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
1,3,5-Trimethylbenzene	**7.6**	**J**	8.9	0.89	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
Toluene	ND		8.9	1.1	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
Xylenes, Total	ND		18	2.5	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
Methyl tertiary butyl ether	ND		8.9	0.89	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
Benzene	ND		8.9	0.89	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
Naphthalene	ND		8.9	3.5	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
1,2,4-Trimethylbenzene	**15**		8.9	0.89	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
Isopropylbenzene	ND		8.9	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1
1,2-Dibromoethane	ND		8.9	0.71	ug/Kg	☼	08/16/21 09:56	08/22/21 20:54	1

Client Sample ID: Pipe 43 (2)

Date Collected: 08/13/21 11:05
Date Received: 08/13/21 18:00

Lab Sample ID: 410-51318-10

Matrix: Solid
Percent Solids: 60.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		54 - 135	08/16/21 09:56	08/22/21 20:54	1
4-Bromofluorobenzene (Surr)	96		50 - 131	08/16/21 09:56	08/22/21 20:54	1
Dibromofluoromethane (Surr)	106		50 - 141	08/16/21 09:56	08/22/21 20:54	1
Toluene-d8 (Surr)	96		52 - 141	08/16/21 09:56	08/22/21 20:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	17	J	49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Benzo[a]anthracene	40	J	49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Benzo[a]pyrene	37	J	49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Benzo[b]fluoranthene	57		49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Benzo[g,h,i]perylene	39	J	49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Chrysene	51		49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Fluorene	ND		49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Phenanthrene	87		49	12	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1
Pyrene	72		49	9.7	ug/Kg	☼	08/26/21 21:36	08/27/21 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		39 - 100	08/26/21 21:36	08/27/21 11:24	1
Nitrobenzene-d5 (Surr)	70		32 - 97	08/26/21 21:36	08/27/21 11:24	1
p-Terphenyl-d14 (Surr)	81		45 - 108	08/26/21 21:36	08/27/21 11:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	60		1.8	0.71	mg/Kg	☼	08/16/21 03:51	08/18/21 17:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	40.0		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: Pipe 42 (2)

Date Collected: 08/13/21 11:25
Date Received: 08/13/21 18:00

Lab Sample ID: 410-51318-11

Matrix: Solid
Percent Solids: 64.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	41		9.1	0.73	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
1,2-Dichloroethane	ND		9.1	1.1	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
1,3,5-Trimethylbenzene	0.96	J	9.1	0.91	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
Toluene	1.2	J	9.1	1.1	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
Xylenes, Total	330		18	2.5	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
Methyl tertiary butyl ether	ND		9.1	0.91	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
Benzene	ND		9.1	0.91	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
Naphthalene	ND		9.1	3.6	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
1,2,4-Trimethylbenzene	1.4	J	9.1	0.91	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
Isopropylbenzene	1.4	J	9.1	0.73	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1
1,2-Dibromoethane	ND		9.1	0.73	ug/Kg	☼	08/16/21 09:56	08/22/21 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		54 - 135	08/16/21 09:56	08/22/21 20:09	1
4-Bromofluorobenzene (Surr)	92		50 - 131	08/16/21 09:56	08/22/21 20:09	1
Dibromofluoromethane (Surr)	103		50 - 141	08/16/21 09:56	08/22/21 20:09	1

Client Sample ID: Pipe 42 (2)

Lab Sample ID: 410-51318-11

Date Collected: 08/13/21 11:25
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 64.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/16/21 09:56*	*08/22/21 20:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**31**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Benzo[a]anthracene	**45**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Benzo[a]pyrene	**41**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Benzo[b]fluoranthene	**66**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Benzo[g,h,i]perylene	**41**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Chrysene	**80**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Fluorene	ND		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Phenanthrene	**120**		26	6.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1
Pyrene	**72**		26	5.2	ug/Kg	☼	08/20/21 17:48	08/23/21 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*58*		*39 - 100*	*08/20/21 17:48*	*08/23/21 18:36*	*1*
Nitrobenzene-d5 (Surr)	*50*		*32 - 97*	*08/20/21 17:48*	*08/23/21 18:36*	*1*
p-Terphenyl-d14 (Surr)	*56*		*45 - 108*	*08/20/21 17:48*	*08/23/21 18:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**110**		2.1	0.82	mg/Kg	☼	08/16/21 03:51	08/18/21 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**35.6**		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: Pipe 41 (2)

Lab Sample ID: 410-51318-12

Date Collected: 08/13/21 11:35
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 58.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.1	0.65	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
1,2-Dichloroethane	ND		8.1	0.97	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
1,3,5-Trimethylbenzene	ND		8.1	0.81	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
Toluene	ND		8.1	0.97	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
Xylenes, Total	ND		16	2.3	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
Methyl tertiary butyl ether	ND		8.1	0.81	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
Benzene	ND		8.1	0.81	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
Naphthalene	ND		8.1	3.2	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
1,2,4-Trimethylbenzene	ND		8.1	0.81	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
Isopropylbenzene	ND		8.1	0.65	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1
1,2-Dibromoethane	ND		8.1	0.65	ug/Kg	☼	08/16/21 09:56	08/22/21 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*08/16/21 09:56*	*08/22/21 18:38*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*08/16/21 09:56*	*08/22/21 18:38*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*08/16/21 09:56*	*08/22/21 18:38*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*08/16/21 09:56*	*08/22/21 18:38*	*1*

Client Sample ID: Pipe 41 (2)

Lab Sample ID: 410-51318-12

Date Collected: 08/13/21 11:35
Date Received: 08/13/21 18:00

Matrix: Solid
Percent Solids: 58.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	22	J	29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Benzo[a]anthracene	22	J	29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Benzo[a]pyrene	25	J	29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Benzo[b]fluoranthene	46		29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Benzo[g,h,i]perylene	25	J	29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Chrysene	46		29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Fluorene	8.6	J	29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Phenanthrene	67		29	6.9	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1
Pyrene	63		29	5.7	ug/Kg	☼	08/20/21 17:48	08/23/21 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*43*		*39 - 100*	*08/20/21 17:48*	*08/23/21 18:58*	*1*
Nitrobenzene-d5 (Surr)	*41*		*32 - 97*	*08/20/21 17:48*	*08/23/21 18:58*	*1*
p-Terphenyl-d14 (Surr)	*41*	*S1-*	*45 - 108*	*08/20/21 17:48*	*08/23/21 18:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		1.9	0.77	mg/Kg	☼	08/16/21 03:51	08/18/21 17:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	41.8		1.0	1.0	%			08/16/21 08:55	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-51318-13

Date Collected: 08/13/21 00:00
Date Received: 08/13/21 18:00

Matrix: Water

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/24/21 12:50	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/24/21 12:50	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/24/21 12:50	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/24/21 12:50	1
Toluene	ND		1.0	0.30	ug/L			08/24/21 12:50	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/24/21 12:50	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/24/21 12:50	1
Benzene	ND		1.0	0.30	ug/L			08/24/21 12:50	1
Naphthalene	ND		5.0	1.0	ug/L			08/24/21 12:50	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/24/21 12:50	1
Isopropylbenzene	ND		5.0	0.30	ug/L			08/24/21 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*08/24/21 12:50*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/24/21 12:50*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*08/24/21 12:50*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/24/21 12:50*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-51318-1	Pipe 63 (2)	112	86	106	102
410-51318-2	Pipe 62 (2)	77	71	73	70
410-51318-3	1044-P1 (3)	71	60	69	65
410-51318-4	1044-P3 (3)	115	78	106	107
410-51318-5	649-P5 (3)	66	55	63	59
410-51318-6	1044-P2 (3)	112	91	106	99
410-51318-7	2045-P2 (3)	110	85	106	106
410-51318-8	2045-P4 (3)	84	77	51	73
410-51318-9	2045-P5 (3)	77	76	0 S1-	72
410-51318-9 - DL	2045-P5 (3)	47 S1-	70	0 S1-	43 S1-
410-51318-10	Pipe 43 (2)	111	96	106	96
410-51318-11	Pipe 42 (2)	112	92	103	95
410-51318-12	Pipe 41 (2)	114	92	104	95
LCS 410-162756/5	Lab Control Sample	100	97	100	101
LCS 410-163191/5	Lab Control Sample	104	99	101	101
LCS 410-163301/4	Lab Control Sample	92	92	96	93
LCS 410-163807/6	Lab Control Sample	99	85	96	90
LCSD 410-162756/6	Lab Control Sample Dup	101	99	99	102
LCSD 410-163191/6	Lab Control Sample Dup	103	98	102	99
LCSD 410-163301/5	Lab Control Sample Dup	93	91	97	93
LCSD 410-163807/7	Lab Control Sample Dup	100	86	97	91
MB 410-162756/10	Method Blank	104	92	102	98
MB 410-163191/10	Method Blank	105	93	103	98
MB 410-163301/9	Method Blank	99	91	98	93
MB 410-163807/11	Method Blank	98	83	94	89

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-51318-13	Trip Blank	95	95	96	100
LCS 410-163820/4	Lab Control Sample	97	96	96	101
LCSD 410-163820/5	Lab Control Sample Dup	97	96	97	101
MB 410-163820/6	Method Blank	96	95	96	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 410-51318-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)						
410-51318-1	Pipe 63 (2)	84	62	86						
410-51318-2	Pipe 62 (2)	70	60	80						
410-51318-3	1044-P1 (3)	84	65	88						
410-51318-4	1044-P3 (3)	79	65	82						
410-51318-5	649-P5 (3)	71	56	68						
410-51318-6	1044-P2 (3)	83	65	90						
410-51318-7	2045-P2 (3)	89	71	87						
410-51318-8	2045-P4 (3)	68	74	85						
410-51318-9	2045-P5 (3)	53	72	76						
410-51318-10	Pipe 43 (2)	70	70	81						
410-51318-11	Pipe 42 (2)	58	50	56						
410-51318-12	Pipe 41 (2)	43	41	41 S1-						
LCS 410-161669/2-A	Lab Control Sample	90	73	98						
LCS 410-162989/2-A	Lab Control Sample	85	80	89						
LCS 410-162991/2-A	Lab Control Sample	92	72	97						
LCS 410-165124/2-A	Lab Control Sample	90	79	98						
MB 410-161669/1-A	Method Blank	94	78	103						
MB 410-162989/1-A	Method Blank	80	75	85						
MB 410-162991/1-A	Method Blank	89	72	98						
MB 410-165124/1-A	Method Blank	91	83	107						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-162756/10
Matrix: Solid
Analysis Batch: 162756

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/20/21 13:01	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/20/21 13:01	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/20/21 13:01	1
Toluene	ND		5.0	0.60	ug/Kg			08/20/21 13:01	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/20/21 13:01	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/20/21 13:01	1
Benzene	ND		5.0	0.50	ug/Kg			08/20/21 13:01	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/20/21 13:01	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/20/21 13:01	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/20/21 13:01	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/20/21 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*08/20/21 13:01*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*		*08/20/21 13:01*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 141*		*08/20/21 13:01*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*		*08/20/21 13:01*	*1*

Lab Sample ID: LCS 410-162756/5
Matrix: Solid
Analysis Batch: 162756

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	16.7		ug/Kg		84	78 - 120		
1,2-Dichloroethane			20.0	18.5		ug/Kg		93	71 - 128		
1,3,5-Trimethylbenzene			20.0	16.1		ug/Kg		80	73 - 120		
Toluene			20.0	16.8		ug/Kg		84	80 - 120		
Xylenes, Total			60.0	50.4		ug/Kg		84	75 - 120		
Methyl tertiary butyl ether			20.0	18.6		ug/Kg		93	72 - 120		
Benzene			20.0	18.0		ug/Kg		90	80 - 120		
Naphthalene			20.0	16.7		ug/Kg		84	48 - 130		
1,2,4-Trimethylbenzene			20.0	16.5		ug/Kg		82	73 - 120		
Isopropylbenzene			20.0	16.0		ug/Kg		80	77 - 120		
1,2-Dibromoethane			20.0	18.5		ug/Kg		92	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*
Dibromofluoromethane (Surr)	*100*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: LCSD 410-162756/6
Matrix: Solid
Analysis Batch: 162756

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	16.5		ug/Kg		82	78 - 120	1	30
1,2-Dichloroethane			20.0	17.8		ug/Kg		89	71 - 128	4	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-162756/6
Matrix: Solid
Analysis Batch: 162756

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	16.0		ug/Kg		80	73 - 120	0	30
Toluene			20.0	16.5		ug/Kg		82	80 - 120	2	30
Xylenes, Total			60.0	49.9		ug/Kg		83	75 - 120	1	30
Methyl tertiary butyl ether			20.0	18.1		ug/Kg		90	72 - 120	3	30
Benzene			20.0	17.3		ug/Kg		86	80 - 120	4	30
Naphthalene			20.0	16.3		ug/Kg		82	48 - 130	2	30
1,2,4-Trimethylbenzene			20.0	16.2		ug/Kg		81	73 - 120	2	30
Isopropylbenzene			20.0	15.7		ug/Kg		78	77 - 120	2	30
1,2-Dibromoethane			20.0	18.3		ug/Kg		91	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*99*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*102*		*52 - 141*

Lab Sample ID: MB 410-163191/10
Matrix: Solid
Analysis Batch: 163191

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			08/22/21 13:28	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			08/22/21 13:28	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/22/21 13:28	1
Toluene	ND		5.0	0.60	ug/Kg			08/22/21 13:28	1
Xylenes, Total	ND		10	1.4	ug/Kg			08/22/21 13:28	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			08/22/21 13:28	1
Benzene	ND		5.0	0.50	ug/Kg			08/22/21 13:28	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/22/21 13:28	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			08/22/21 13:28	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			08/22/21 13:28	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			08/22/21 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*		*08/22/21 13:28*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*		*08/22/21 13:28*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*		*08/22/21 13:28*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*		*08/22/21 13:28*	*1*

Lab Sample ID: LCS 410-163191/5
Matrix: Solid
Analysis Batch: 163191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			20.0	17.5		ug/Kg		88	78 - 120
1,2-Dichloroethane			20.0	19.1		ug/Kg		96	71 - 128
1,3,5-Trimethylbenzene			20.0	16.8		ug/Kg		84	73 - 120
Toluene			20.0	17.4		ug/Kg		87	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-163191/5
Matrix: Solid
Analysis Batch: 163191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	60.0	52.4		ug/Kg		87	75 - 120
Methyl tertiary butyl ether	20.0	19.8		ug/Kg		99	72 - 120
Benzene	20.0	18.9		ug/Kg		94	80 - 120
Naphthalene	20.0	16.4		ug/Kg		82	48 - 130
1,2,4-Trimethylbenzene	20.0	17.1		ug/Kg		86	73 - 120
Isopropylbenzene	20.0	17.1		ug/Kg		85	77 - 120
1,2-Dibromoethane	20.0	18.5		ug/Kg		92	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*
4-Bromofluorobenzene (Surr)	*99*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*101*		*52 - 141*

Lab Sample ID: LCSD 410-163191/6
Matrix: Solid
Analysis Batch: 163191

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	17.5		ug/Kg		87	78 - 120	0	30
1,2-Dichloroethane	20.0	19.2		ug/Kg		96	71 - 128	1	30
1,3,5-Trimethylbenzene	20.0	17.1		ug/Kg		86	73 - 120	2	30
Toluene	20.0	17.4		ug/Kg		87	80 - 120	0	30
Xylenes, Total	60.0	52.4		ug/Kg		87	75 - 120	0	30
Methyl tertiary butyl ether	20.0	20.4		ug/Kg		102	72 - 120	3	30
Benzene	20.0	19.1		ug/Kg		95	80 - 120	1	30
Naphthalene	20.0	16.7		ug/Kg		83	48 - 130	2	30
1,2,4-Trimethylbenzene	20.0	17.4		ug/Kg		87	73 - 120	2	30
Isopropylbenzene	20.0	17.1		ug/Kg		85	77 - 120	0	30
1,2-Dibromoethane	20.0	18.9		ug/Kg		94	76 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*99*		*52 - 141*

Lab Sample ID: MB 410-163301/9
Matrix: Solid
Analysis Batch: 163301

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/23/21 12:33	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/23/21 12:33	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/23/21 12:33	50
Toluene	ND		250	30	ug/Kg			08/23/21 12:33	50
Xylenes, Total	ND		500	70	ug/Kg			08/23/21 12:33	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/23/21 12:33	50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-163301/9
Matrix: Solid
Analysis Batch: 163301

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		250	25	ug/Kg			08/23/21 12:33	50
Naphthalene	ND		250	100	ug/Kg			08/23/21 12:33	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/23/21 12:33	50
Isopropylbenzene	ND		250	20	ug/Kg			08/23/21 12:33	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/23/21 12:33	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*		*08/23/21 12:33*	*50*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*		*08/23/21 12:33*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*08/23/21 12:33*	*50*
Toluene-d8 (Surr)	*93*		*52 - 141*		*08/23/21 12:33*	*50*

Lab Sample ID: LCS 410-163301/4
Matrix: Solid
Analysis Batch: 163301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	961		ug/Kg		96	78 - 120		
1,2-Dichloroethane			1000	966		ug/Kg		97	71 - 128		
1,3,5-Trimethylbenzene			1000	979		ug/Kg		98	73 - 120		
Toluene			1000	968		ug/Kg		97	80 - 120		
Xylenes, Total			3000	2900		ug/Kg		97	75 - 120		
Methyl tertiary butyl ether			1000	1000		ug/Kg		100	72 - 120		
Benzene			1000	1000		ug/Kg		100	80 - 120		
Naphthalene			1000	872		ug/Kg		87	48 - 130		
1,2,4-Trimethylbenzene			1000	964		ug/Kg		96	73 - 120		
Isopropylbenzene			1000	1000		ug/Kg		100	77 - 120		
1,2-Dibromoethane			1000	970		ug/Kg		97	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*54 - 135*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*
Dibromofluoromethane (Surr)	*96*		*50 - 141*
Toluene-d8 (Surr)	*93*		*52 - 141*

Lab Sample ID: LCSD 410-163301/5
Matrix: Solid
Analysis Batch: 163301

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	959		ug/Kg		96	78 - 120	0	30
1,2-Dichloroethane			1000	983		ug/Kg		98	71 - 128	2	30
1,3,5-Trimethylbenzene			1000	975		ug/Kg		98	73 - 120	0	30
Toluene			1000	957		ug/Kg		96	80 - 120	1	30
Xylenes, Total			3000	2870		ug/Kg		96	75 - 120	1	30
Methyl tertiary butyl ether			1000	1010		ug/Kg		101	72 - 120	1	30
Benzene			1000	986		ug/Kg		99	80 - 120	1	30
Naphthalene			1000	922		ug/Kg		92	48 - 130	6	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-163301/5
Matrix: Solid
Analysis Batch: 163301

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			1000	974		ug/Kg		97	73 - 120	1	30
Isopropylbenzene			1000	1000		ug/Kg		100	77 - 120	0	30
1,2-Dibromoethane			1000	967		ug/Kg		97	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*54 - 135*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*93*		*52 - 141*

Lab Sample ID: MB 410-163807/11
Matrix: Solid
Analysis Batch: 163807

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			08/24/21 12:31	50
1,2-Dichloroethane	ND		250	30	ug/Kg			08/24/21 12:31	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			08/24/21 12:31	50
Toluene	ND		250	30	ug/Kg			08/24/21 12:31	50
Xylenes, Total	ND		500	70	ug/Kg			08/24/21 12:31	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			08/24/21 12:31	50
Benzene	ND		250	25	ug/Kg			08/24/21 12:31	50
Naphthalene	ND		250	100	ug/Kg			08/24/21 12:31	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			08/24/21 12:31	50
Isopropylbenzene	ND		250	20	ug/Kg			08/24/21 12:31	50
1,2-Dibromoethane	ND		250	20	ug/Kg			08/24/21 12:31	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*54 - 135*		*08/24/21 12:31*	*50*
4-Bromofluorobenzene (Surr)	*83*		*50 - 131*		*08/24/21 12:31*	*50*
Dibromofluoromethane (Surr)	*94*		*50 - 141*		*08/24/21 12:31*	*50*
Toluene-d8 (Surr)	*89*		*52 - 141*		*08/24/21 12:31*	*50*

Lab Sample ID: LCS 410-163807/6
Matrix: Solid
Analysis Batch: 163807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	928		ug/Kg		93	78 - 120
1,2-Dichloroethane			1000	925		ug/Kg		92	71 - 128
1,3,5-Trimethylbenzene			1000	844		ug/Kg		84	73 - 120
Toluene			1000	950		ug/Kg		95	80 - 120
Xylenes, Total			3000	2880		ug/Kg		96	75 - 120
Methyl tertiary butyl ether			1000	982		ug/Kg		98	72 - 120
Benzene			1000	987		ug/Kg		99	80 - 120
Naphthalene			1000	791		ug/Kg		79	48 - 130
1,2,4-Trimethylbenzene			1000	839		ug/Kg		84	73 - 120
Isopropylbenzene			1000	937		ug/Kg		94	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-163807/6
Matrix: Solid
Analysis Batch: 163807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			1000	973		ug/Kg		97	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*
4-Bromofluorobenzene (Surr)	*85*		*50 - 131*
Dibromofluoromethane (Surr)	*96*		*50 - 141*
Toluene-d8 (Surr)	*90*		*52 - 141*

Lab Sample ID: LCSD 410-163807/7
Matrix: Solid
Analysis Batch: 163807

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	935		ug/Kg		93	78 - 120	1	30
1,2-Dichloroethane			1000	924		ug/Kg		92	71 - 128	0	30
1,3,5-Trimethylbenzene			1000	847		ug/Kg		85	73 - 120	0	30
Toluene			1000	961		ug/Kg		96	80 - 120	1	30
Xylenes, Total			3000	2890		ug/Kg		96	75 - 120	0	30
Methyl tertiary butyl ether			1000	987		ug/Kg		99	72 - 120	1	30
Benzene			1000	997		ug/Kg		100	80 - 120	1	30
Naphthalene			1000	789		ug/Kg		79	48 - 130	0	30
1,2,4-Trimethylbenzene			1000	845		ug/Kg		84	73 - 120	1	30
Isopropylbenzene			1000	957		ug/Kg		96	77 - 120	2	30
1,2-Dibromoethane			1000	980		ug/Kg		98	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*86*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*91*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-163820/6
Matrix: Water
Analysis Batch: 163820

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			08/24/21 12:02	1
Ethylbenzene	ND		1.0	0.40	ug/L			08/24/21 12:02	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			08/24/21 12:02	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			08/24/21 12:02	1
Toluene	ND		1.0	0.30	ug/L			08/24/21 12:02	1
Xylenes, Total	ND		6.0	1.4	ug/L			08/24/21 12:02	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			08/24/21 12:02	1
Benzene	ND		1.0	0.30	ug/L			08/24/21 12:02	1
Naphthalene	ND		5.0	1.0	ug/L			08/24/21 12:02	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			08/24/21 12:02	1

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-163820/6
Matrix: Water
Analysis Batch: 163820

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.30	ug/L			08/24/21 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*08/24/21 12:02*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/24/21 12:02*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*08/24/21 12:02*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/24/21 12:02*	*1*

Lab Sample ID: LCS 410-163820/4
Matrix: Water
Analysis Batch: 163820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	17.2		ug/L		86	77 - 120		
Ethylbenzene			20.0	18.1		ug/L		91	80 - 120		
1,2-Dichloroethane			20.0	16.8		ug/L		84	73 - 124		
1,3,5-Trimethylbenzene			20.0	18.0		ug/L		90	75 - 120		
Toluene			20.0	17.7		ug/L		89	80 - 120		
Xylenes, Total			60.0	54.0		ug/L		90	80 - 120		
Methyl tertiary butyl ether			20.0	16.5		ug/L		83	69 - 122		
Benzene			20.0	17.3		ug/L		86	80 - 120		
Naphthalene			20.0	17.2		ug/L		86	53 - 124		
1,2,4-Trimethylbenzene			20.0	17.9		ug/L		89	75 - 120		
Isopropylbenzene			20.0	17.3		ug/L		86	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 410-163820/5
Matrix: Water
Analysis Batch: 163820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	21.0		ug/L		105	77 - 120	20	30
Ethylbenzene			20.0	22.1		ug/L		110	80 - 120	20	30
1,2-Dichloroethane			20.0	20.0		ug/L		100	73 - 124	18	30
1,3,5-Trimethylbenzene			20.0	21.7		ug/L		109	75 - 120	19	30
Toluene			20.0	21.3		ug/L		107	80 - 120	19	30
Xylenes, Total			60.0	65.1		ug/L		109	80 - 120	19	30
Methyl tertiary butyl ether			20.0	20.0		ug/L		100	69 - 122	19	30
Benzene			20.0	20.9		ug/L		104	80 - 120	19	30
Naphthalene			20.0	20.2		ug/L		101	53 - 124	16	30
1,2,4-Trimethylbenzene			20.0	22.0		ug/L		110	75 - 120	21	30
Isopropylbenzene			20.0	21.3		ug/L		106	80 - 120	21	30

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-163820/5
Matrix: Water
Analysis Batch: 163820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-161669/1-A
Matrix: Solid
Analysis Batch: 163104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Chrysene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Fluorene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Phenanthrene	ND		17	4.0	ug/Kg		08/18/21 10:11	08/21/21 14:28	1
Pyrene	ND		17	3.3	ug/Kg		08/18/21 10:11	08/21/21 14:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		39 - 100	08/18/21 10:11	08/21/21 14:28	1
Nitrobenzene-d5 (Surr)	78		32 - 97	08/18/21 10:11	08/21/21 14:28	1
p-Terphenyl-d14 (Surr)	103		45 - 108	08/18/21 10:11	08/21/21 14:28	1

Lab Sample ID: LCS 410-161669/2-A
Matrix: Solid
Analysis Batch: 163104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1460		ug/Kg		87	75 - 120
Benzo[a]anthracene	1670	1580		ug/Kg		95	73 - 120
Benzo[a]pyrene	1670	1510		ug/Kg		90	80 - 123
Benzo[b]fluoranthene	1670	1560		ug/Kg		94	63 - 120
Benzo[g,h,i]perylene	1670	1640		ug/Kg		99	77 - 120
Chrysene	1670	1530		ug/Kg		92	66 - 120
Fluorene	1670	1570		ug/Kg		94	68 - 120
Phenanthrene	1670	1470		ug/Kg		88	74 - 120
Pyrene	1670	1540		ug/Kg		92	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	90		39 - 100
Nitrobenzene-d5 (Surr)	73		32 - 97
p-Terphenyl-d14 (Surr)	98		45 - 108

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-162989/1-A
Matrix: Solid
Analysis Batch: 163107

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162989

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Chrysene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Fluorene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Phenanthrene	ND		17	4.0	ug/Kg		08/20/21 17:42	08/21/21 15:28	1
Pyrene	ND		17	3.3	ug/Kg		08/20/21 17:42	08/21/21 15:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*08/20/21 17:42*	*08/21/21 15:28*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*08/20/21 17:42*	*08/21/21 15:28*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*08/20/21 17:42*	*08/21/21 15:28*	*1*

Lab Sample ID: LCS 410-162989/2-A
Matrix: Solid
Analysis Batch: 163107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1520		ug/Kg		91	75 - 120
Benzo[a]anthracene	1670	1450		ug/Kg		87	73 - 120
Benzo[a]pyrene	1670	1560		ug/Kg		94	80 - 123
Benzo[b]fluoranthene	1670	1440		ug/Kg		86	63 - 120
Benzo[g,h,i]perylene	1670	1490		ug/Kg		90	77 - 120
Chrysene	1670	1370		ug/Kg		82	66 - 120
Fluorene	1670	1460		ug/Kg		88	68 - 120
Phenanthrene	1670	1470		ug/Kg		88	74 - 120
Pyrene	1670	1420		ug/Kg		85	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*
Nitrobenzene-d5 (Surr)	*80*		*32 - 97*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*

Lab Sample ID: MB 410-162991/1-A
Matrix: Solid
Analysis Batch: 163224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Chrysene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Fluorene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1
Phenanthrene	ND		17	4.0	ug/Kg		08/20/21 17:48	08/23/21 11:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-162991/1-A
Matrix: Solid
Analysis Batch: 163224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		17	3.3	ug/Kg		08/20/21 17:48	08/23/21 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*08/20/21 17:48*	*08/23/21 11:39*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*08/20/21 17:48*	*08/23/21 11:39*	*1*
p-Terphenyl-d14 (Surr)	*98*		*45 - 108*	*08/20/21 17:48*	*08/23/21 11:39*	*1*

Lab Sample ID: LCS 410-162991/2-A
Matrix: Solid
Analysis Batch: 163224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1520		ug/Kg		91	75 - 120
Benzo[a]anthracene	1670	1640		ug/Kg		98	73 - 120
Benzo[a]pyrene	1670	1560		ug/Kg		93	80 - 123
Benzo[b]fluoranthene	1670	1540		ug/Kg		92	63 - 120
Benzo[g,h,i]perylene	1670	1680		ug/Kg		101	77 - 120
Chrysene	1670	1630		ug/Kg		98	66 - 120
Fluorene	1670	1610		ug/Kg		96	68 - 120
Phenanthrene	1670	1540		ug/Kg		92	74 - 120
Pyrene	1670	1580		ug/Kg		95	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*92*		*39 - 100*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*
p-Terphenyl-d14 (Surr)	*97*		*45 - 108*

Lab Sample ID: MB 410-165124/1-A
Matrix: Solid
Analysis Batch: 165291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 165124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Chrysene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Fluorene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Phenanthrene	ND		17	4.0	ug/Kg		08/26/21 16:16	08/27/21 08:26	1
Pyrene	ND		17	3.3	ug/Kg		08/26/21 16:16	08/27/21 08:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*	*08/26/21 16:16*	*08/27/21 08:26*	*1*
Nitrobenzene-d5 (Surr)	*83*		*32 - 97*	*08/26/21 16:16*	*08/27/21 08:26*	*1*
p-Terphenyl-d14 (Surr)	*107*		*45 - 108*	*08/26/21 16:16*	*08/27/21 08:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-165124/2-A
Matrix: Solid
Analysis Batch: 165291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 165124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1550		ug/Kg		93	75 - 120
Benzo[a]anthracene	1670	1460		ug/Kg		87	73 - 120
Benzo[a]pyrene	1670	1510		ug/Kg		90	80 - 123
Benzo[b]fluoranthene	1670	1430		ug/Kg		86	63 - 120
Benzo[g,h,i]perylene	1670	1760		ug/Kg		106	77 - 120
Chrysene	1670	1610		ug/Kg		96	66 - 120
Fluorene	1670	1530		ug/Kg		92	68 - 120
Phenanthrene	1670	1480		ug/Kg		89	74 - 120
Pyrene	1670	1440		ug/Kg		86	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*90*		*39 - 100*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*
p-Terphenyl-d14 (Surr)	*98*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-160613/1-A
Matrix: Solid
Analysis Batch: 160923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/16/21 03:44	08/16/21 13:38	1

Lab Sample ID: LCS 410-160613/2-A
Matrix: Solid
Analysis Batch: 160923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.18		mg/Kg		104	80 - 120

Lab Sample ID: MB 410-160614/1-A
Matrix: Solid
Analysis Batch: 162054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160614

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		08/16/21 03:51	08/18/21 16:47	1

Lab Sample ID: LCS 410-160614/2-A
Matrix: Solid
Analysis Batch: 162054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160614

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.23		mg/Kg		105	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-51318-11 MS
Matrix: Solid
Analysis Batch: 162054

Client Sample ID: Pipe 42 (2)
Prep Type: Total/NA
Prep Batch: 160614

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	110		6.93	132	4	mg/Kg	☼	351	75 - 125		

Lab Sample ID: 410-51318-11 MSD
Matrix: Solid
Analysis Batch: 162054

Client Sample ID: Pipe 42 (2)
Prep Type: Total/NA
Prep Batch: 160614

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	110		5.79	117	4	mg/Kg	☼	160	75 - 125	12	20

Lab Sample ID: 410-51318-11 DU
Matrix: Solid
Analysis Batch: 162054

Client Sample ID: Pipe 42 (2)
Prep Type: Total/NA
Prep Batch: 160614

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	110			124		mg/Kg	☼			14	20

GC/MS VOA

Prep Batch: 160790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	5035	
410-51318-4	1044-P3 (3)	Total/NA	Solid	5035	
410-51318-4 - RA	1044-P3 (3)	Total/NA	Solid	5035	
410-51318-6	1044-P2 (3)	Total/NA	Solid	5035	
410-51318-7	2045-P2 (3)	Total/NA	Solid	5035	
410-51318-10	Pipe 43 (2)	Total/NA	Solid	5035	
410-51318-11	Pipe 42 (2)	Total/NA	Solid	5035	
410-51318-12	Pipe 41 (2)	Total/NA	Solid	5035	

Prep Batch: 160812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-2	Pipe 62 (2)	Total/NA	Solid	5035	
410-51318-3	1044-P1 (3)	Total/NA	Solid	5035	
410-51318-5	649-P5 (3)	Total/NA	Solid	5035	
410-51318-8	2045-P4 (3)	Total/NA	Solid	5035	
410-51318-9	2045-P5 (3)	Total/NA	Solid	5035	
410-51318-9 - RA	2045-P5 (3)	Total/NA	Solid	5035	
410-51318-9 - DL	2045-P5 (3)	Total/NA	Solid	5035	

Analysis Batch: 162756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-4	1044-P3 (3)	Total/NA	Solid	8260C	160790
410-51318-7	2045-P2 (3)	Total/NA	Solid	8260C	160790
MB 410-162756/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-162756/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-162756/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 163191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	8260C	160790
410-51318-4 - RA	1044-P3 (3)	Total/NA	Solid	8260C	160790
410-51318-6	1044-P2 (3)	Total/NA	Solid	8260C	160790
410-51318-10	Pipe 43 (2)	Total/NA	Solid	8260C	160790
410-51318-11	Pipe 42 (2)	Total/NA	Solid	8260C	160790
410-51318-12	Pipe 41 (2)	Total/NA	Solid	8260C	160790
MB 410-163191/10	Method Blank	Total/NA	Solid	8260C	
LCS 410-163191/5	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-163191/6	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 163301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-2	Pipe 62 (2)	Total/NA	Solid	8260C	160812
410-51318-3	1044-P1 (3)	Total/NA	Solid	8260C	160812
410-51318-5	649-P5 (3)	Total/NA	Solid	8260C	160812
410-51318-9	2045-P5 (3)	Total/NA	Solid	8260C	160812
MB 410-163301/9	Method Blank	Total/NA	Solid	8260C	
LCS 410-163301/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-163301/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

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Analysis Batch: 163807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-8	2045-P4 (3)	Total/NA	Solid	8260C	160812
410-51318-9 - RA	2045-P5 (3)	Total/NA	Solid	8260C	160812
410-51318-9 - DL	2045-P5 (3)	Total/NA	Solid	8260C	160812
MB 410-163807/11	Method Blank	Total/NA	Solid	8260C	
LCS 410-163807/6	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-163807/7	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 163820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-13	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-163820/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-163820/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-163820/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

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Prep Batch: 161669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	3546	
410-51318-2	Pipe 62 (2)	Total/NA	Solid	3546	
410-51318-3	1044-P1 (3)	Total/NA	Solid	3546	
410-51318-4	1044-P3 (3)	Total/NA	Solid	3546	
MB 410-161669/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-161669/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 162989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-5	649-P5 (3)	Total/NA	Solid	3546	
410-51318-6	1044-P2 (3)	Total/NA	Solid	3546	
410-51318-7	2045-P2 (3)	Total/NA	Solid	3546	
410-51318-8	2045-P4 (3)	Total/NA	Solid	3546	
410-51318-9	2045-P5 (3)	Total/NA	Solid	3546	
MB 410-162989/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-162989/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 162991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-11	Pipe 42 (2)	Total/NA	Solid	3546	
410-51318-12	Pipe 41 (2)	Total/NA	Solid	3546	
MB 410-162991/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-162991/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 163104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	8270D	161669
410-51318-2	Pipe 62 (2)	Total/NA	Solid	8270D	161669
410-51318-3	1044-P1 (3)	Total/NA	Solid	8270D	161669
410-51318-4	1044-P3 (3)	Total/NA	Solid	8270D	161669
MB 410-161669/1-A	Method Blank	Total/NA	Solid	8270D	161669
LCS 410-161669/2-A	Lab Control Sample	Total/NA	Solid	8270D	161669

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Analysis Batch: 163107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-162989/1-A	Method Blank	Total/NA	Solid	8270D	162989
LCS 410-162989/2-A	Lab Control Sample	Total/NA	Solid	8270D	162989

Analysis Batch: 163224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-5	649-P5 (3)	Total/NA	Solid	8270D	162989
410-51318-6	1044-P2 (3)	Total/NA	Solid	8270D	162989
410-51318-7	2045-P2 (3)	Total/NA	Solid	8270D	162989
410-51318-8	2045-P4 (3)	Total/NA	Solid	8270D	162989
410-51318-9	2045-P5 (3)	Total/NA	Solid	8270D	162989
410-51318-11	Pipe 42 (2)	Total/NA	Solid	8270D	162991
410-51318-12	Pipe 41 (2)	Total/NA	Solid	8270D	162991
MB 410-162991/1-A	Method Blank	Total/NA	Solid	8270D	162991
LCS 410-162991/2-A	Lab Control Sample	Total/NA	Solid	8270D	162991

Prep Batch: 165124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-10	Pipe 43 (2)	Total/NA	Solid	3546	
MB 410-165124/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-165124/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 165291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-10	Pipe 43 (2)	Total/NA	Solid	8270D	165124
MB 410-165124/1-A	Method Blank	Total/NA	Solid	8270D	165124
LCS 410-165124/2-A	Lab Control Sample	Total/NA	Solid	8270D	165124

Metals

Prep Batch: 160613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	3050B	
410-51318-2	Pipe 62 (2)	Total/NA	Solid	3050B	
410-51318-3	1044-P1 (3)	Total/NA	Solid	3050B	
410-51318-4	1044-P3 (3)	Total/NA	Solid	3050B	
410-51318-5	649-P5 (3)	Total/NA	Solid	3050B	
410-51318-6	1044-P2 (3)	Total/NA	Solid	3050B	
410-51318-7	2045-P2 (3)	Total/NA	Solid	3050B	
410-51318-8	2045-P4 (3)	Total/NA	Solid	3050B	
410-51318-9	2045-P5 (3)	Total/NA	Solid	3050B	
MB 410-160613/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-160613/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 160614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-10	Pipe 43 (2)	Total/NA	Solid	3050B	
410-51318-11	Pipe 42 (2)	Total/NA	Solid	3050B	
410-51318-12	Pipe 41 (2)	Total/NA	Solid	3050B	
MB 410-160614/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-160614/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-51318-11 MS	Pipe 42 (2)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 160614 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-11 MSD	Pipe 42 (2)	Total/NA	Solid	3050B	
410-51318-11 DU	Pipe 42 (2)	Total/NA	Solid	3050B	

Analysis Batch: 160923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	6010C	160613
410-51318-2	Pipe 62 (2)	Total/NA	Solid	6010C	160613
410-51318-3	1044-P1 (3)	Total/NA	Solid	6010C	160613
410-51318-4	1044-P3 (3)	Total/NA	Solid	6010C	160613
410-51318-5	649-P5 (3)	Total/NA	Solid	6010C	160613
410-51318-6	1044-P2 (3)	Total/NA	Solid	6010C	160613
410-51318-7	2045-P2 (3)	Total/NA	Solid	6010C	160613
410-51318-8	2045-P4 (3)	Total/NA	Solid	6010C	160613
410-51318-9	2045-P5 (3)	Total/NA	Solid	6010C	160613
MB 410-160613/1-A	Method Blank	Total/NA	Solid	6010C	160613
LCS 410-160613/2-A	Lab Control Sample	Total/NA	Solid	6010C	160613

Analysis Batch: 162054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-10	Pipe 43 (2)	Total/NA	Solid	6010C	160614
410-51318-11	Pipe 42 (2)	Total/NA	Solid	6010C	160614
410-51318-12	Pipe 41 (2)	Total/NA	Solid	6010C	160614
MB 410-160614/1-A	Method Blank	Total/NA	Solid	6010C	160614
LCS 410-160614/2-A	Lab Control Sample	Total/NA	Solid	6010C	160614
410-51318-11 MS	Pipe 42 (2)	Total/NA	Solid	6010C	160614
410-51318-11 MSD	Pipe 42 (2)	Total/NA	Solid	6010C	160614
410-51318-11 DU	Pipe 42 (2)	Total/NA	Solid	6010C	160614

General Chemistry

Analysis Batch: 160744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-1	Pipe 63 (2)	Total/NA	Solid	Moisture	
410-51318-2	Pipe 62 (2)	Total/NA	Solid	Moisture	
410-51318-3	1044-P1 (3)	Total/NA	Solid	Moisture	
410-51318-4	1044-P3 (3)	Total/NA	Solid	Moisture	
410-51318-10	Pipe 43 (2)	Total/NA	Solid	Moisture	
410-51318-11	Pipe 42 (2)	Total/NA	Solid	Moisture	
410-51318-12	Pipe 41 (2)	Total/NA	Solid	Moisture	

Analysis Batch: 160782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-51318-5	649-P5 (3)	Total/NA	Solid	Moisture	
410-51318-6	1044-P2 (3)	Total/NA	Solid	Moisture	
410-51318-7	2045-P2 (3)	Total/NA	Solid	Moisture	
410-51318-8	2045-P4 (3)	Total/NA	Solid	Moisture	
410-51318-9	2045-P5 (3)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Client Sample ID: Pipe 63 (2)

Lab Sample ID: 410-51318-1

Date Collected: 08/12/21 11:40

Matrix: Solid

Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Client Sample ID: Pipe 63 (2)

Lab Sample ID: 410-51318-1

Date Collected: 08/12/21 11:40

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 72.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	163191	08/22/21 20:32	UCB5	ELLE
Total/NA	Prep	3546			161669	08/18/21 10:11	U9KU	ELLE
Total/NA	Analysis	8270D		1	163104	08/21/21 17:38	SJ89	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 13:59	WJM9	ELLE

Client Sample ID: Pipe 62 (2)

Lab Sample ID: 410-51318-2

Date Collected: 08/12/21 11:50

Matrix: Solid

Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Client Sample ID: Pipe 62 (2)

Lab Sample ID: 410-51318-2

Date Collected: 08/12/21 11:50

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C		50	163301	08/23/21 16:47	SWV2	ELLE
Total/NA	Prep	3546			161669	08/18/21 10:11	U9KU	ELLE
Total/NA	Analysis	8270D		1	163104	08/21/21 18:02	SJ89	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:02	WJM9	ELLE

Client Sample ID: 1044-P1 (3)

Lab Sample ID: 410-51318-3

Date Collected: 08/12/21 12:00

Matrix: Solid

Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Client Sample ID: 1044-P1 (3)

Lab Sample ID: 410-51318-3
Date Collected: 08/12/21 12:00
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C		50	163301	08/23/21 17:09	SWV2	ELLE
Total/NA	Prep	3546			161669	08/18/21 10:11	U9KU	ELLE
Total/NA	Analysis	8270D		1	163104	08/21/21 18:25	SJ89	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:06	WJM9	ELLE

Client Sample ID: 1044-P3 (3)

Lab Sample ID: 410-51318-4
Date Collected: 08/12/21 12:30
Matrix: Solid
Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Client Sample ID: 1044-P3 (3)

Lab Sample ID: 410-51318-4
Date Collected: 08/12/21 12:30
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 65.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	162756	08/20/21 15:18	USEJ	ELLE
Total/NA	Prep	5035	RA		160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	163191	08/22/21 18:16	UCB5	ELLE
Total/NA	Prep	3546			161669	08/18/21 10:11	U9KU	ELLE
Total/NA	Analysis	8270D		1	163104	08/21/21 18:48	SJ89	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:09	WJM9	ELLE

Client Sample ID: 649-P5 (3)

Lab Sample ID: 410-51318-5
Date Collected: 08/13/21 09:20
Matrix: Solid
Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160782	08/16/21 09:32	UWC1	ELLE

Client Sample ID: 649-P5 (3)

Lab Sample ID: 410-51318-5
Date Collected: 08/13/21 09:20
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C		50	163301	08/23/21 17:32	SWV2	ELLE
Total/NA	Prep	3546			162989	08/20/21 17:42	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 15:40	ULM3	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:28	WJM9	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Client Sample ID: 1044-P2 (3)

Lab Sample ID: 410-51318-6

Date Collected: 08/13/21 09:00
Date Received: 08/13/21 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160782	08/16/21 09:32	UWC1	ELLE

Client Sample ID: 1044-P2 (3)

Lab Sample ID: 410-51318-6

Date Collected: 08/13/21 09:00
Date Received: 08/13/21 18:00

Matrix: Solid
Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	163191	08/22/21 21:40	UCB5	ELLE
Total/NA	Prep	3546			162989	08/20/21 17:42	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 16:02	ULM3	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:31	WJM9	ELLE

Client Sample ID: 2045-P2 (3)

Lab Sample ID: 410-51318-7

Date Collected: 08/13/21 09:50
Date Received: 08/13/21 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160782	08/16/21 09:32	UWC1	ELLE

Client Sample ID: 2045-P2 (3)

Lab Sample ID: 410-51318-7

Date Collected: 08/13/21 09:50
Date Received: 08/13/21 18:00

Matrix: Solid
Percent Solids: 67.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	162756	08/20/21 19:09	USEJ	ELLE
Total/NA	Prep	3546			162989	08/20/21 17:42	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 16:24	ULM3	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:35	WJM9	ELLE

Client Sample ID: 2045-P4 (3)

Lab Sample ID: 410-51318-8

Date Collected: 08/13/21 10:15
Date Received: 08/13/21 18:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160782	08/16/21 09:32	UWC1	ELLE

Client Sample ID: 2045-P4 (3)

Lab Sample ID: 410-51318-8

Date Collected: 08/13/21 10:15

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 54.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C		50	163807	08/24/21 13:55	USEJ	ELLE
Total/NA	Prep	3546			162989	08/20/21 17:42	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 16:46	ULM3	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:38	WJM9	ELLE

Client Sample ID: 2045-P5 (3)

Lab Sample ID: 410-51318-9

Date Collected: 08/13/21 10:40

Matrix: Solid

Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160782	08/16/21 09:32	UWC1	ELLE

Client Sample ID: 2045-P5 (3)

Lab Sample ID: 410-51318-9

Date Collected: 08/13/21 10:40

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 58.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C		50	163301	08/23/21 18:16	SWV2	ELLE
Total/NA	Prep	5035	RA		160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C	RA	50	163807	08/24/21 14:16	USEJ	ELLE
Total/NA	Prep	5035	DL		160812	08/16/21 10:50	JJT8	ELLE
Total/NA	Analysis	8260C	DL	500	163807	08/24/21 14:36	USEJ	ELLE
Total/NA	Prep	3546			162989	08/20/21 17:42	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 17:08	ULM3	ELLE
Total/NA	Prep	3050B			160613	08/16/21 03:44	WBK6	ELLE
Total/NA	Analysis	6010C		1	160923	08/16/21 14:42	WJM9	ELLE

Client Sample ID: Pipe 43 (2)

Lab Sample ID: 410-51318-10

Date Collected: 08/13/21 11:05

Matrix: Solid

Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Client Sample ID: Pipe 43 (2)

Lab Sample ID: 410-51318-10

Date Collected: 08/13/21 11:05

Matrix: Solid

Date Received: 08/13/21 18:00

Percent Solids: 60.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	163191	08/22/21 20:54	UCB5	ELLE
Total/NA	Prep	3546			165124	08/26/21 21:36	FTV5	ELLE
Total/NA	Analysis	8270D		1	165291	08/27/21 11:24	ULM3	ELLE

Client Sample ID: Pipe 43 (2)

Lab Sample ID: 410-51318-10
Date Collected: 08/13/21 11:05
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 60.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			160614	08/16/21 03:51	WBK6	ELLE
Total/NA	Analysis	6010C		1	162054	08/18/21 17:29	XQY5	ELLE

Client Sample ID: Pipe 42 (2)

Lab Sample ID: 410-51318-11
Date Collected: 08/13/21 11:25
Matrix: Solid
Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Client Sample ID: Pipe 42 (2)

Lab Sample ID: 410-51318-11
Date Collected: 08/13/21 11:25
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 64.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	163191	08/22/21 20:09	UCB5	ELLE
Total/NA	Prep	3546			162991	08/20/21 17:48	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 18:36	ULM3	ELLE
Total/NA	Prep	3050B			160614	08/16/21 03:51	WBK6	ELLE
Total/NA	Analysis	6010C		1	162054	08/18/21 17:00	XQY5	ELLE

Client Sample ID: Pipe 41 (2)

Lab Sample ID: 410-51318-12
Date Collected: 08/13/21 11:35
Matrix: Solid
Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	160744	08/16/21 08:55	UWC1	ELLE

Client Sample ID: Pipe 41 (2)

Lab Sample ID: 410-51318-12
Date Collected: 08/13/21 11:35
Matrix: Solid
Date Received: 08/13/21 18:00
Percent Solids: 58.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160790	08/16/21 09:56	JJT8	ELLE
Total/NA	Analysis	8260C		1	163191	08/22/21 18:38	UCB5	ELLE
Total/NA	Prep	3546			162991	08/20/21 17:48	QQ3P	ELLE
Total/NA	Analysis	8270D		1	163224	08/23/21 18:58	ULM3	ELLE
Total/NA	Prep	3050B			160614	08/16/21 03:51	WBK6	ELLE
Total/NA	Analysis	6010C		1	162054	08/18/21 17:25	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-51318-13

Date Collected: 08/13/21 00:00

Matrix: Water

Date Received: 08/13/21 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	163820	08/24/21 12:50	LCW8	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-51318-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-51318-1	Pipe 63 (2)	Solid	08/12/21 11:40	08/13/21 18:00
410-51318-2	Pipe 62 (2)	Solid	08/12/21 11:50	08/13/21 18:00
410-51318-3	1044-P1 (3)	Solid	08/12/21 12:00	08/13/21 18:00
410-51318-4	1044-P3 (3)	Solid	08/12/21 12:30	08/13/21 18:00
410-51318-5	649-P5 (3)	Solid	08/13/21 09:20	08/13/21 18:00
410-51318-6	1044-P2 (3)	Solid	08/13/21 09:00	08/13/21 18:00
410-51318-7	2045-P2 (3)	Solid	08/13/21 09:50	08/13/21 18:00
410-51318-8	2045-P4 (3)	Solid	08/13/21 10:15	08/13/21 18:00
410-51318-9	2045-P5 (3)	Solid	08/13/21 10:40	08/13/21 18:00
410-51318-10	Pipe 43 (2)	Solid	08/13/21 11:05	08/13/21 18:00
410-51318-11	Pipe 42 (2)	Solid	08/13/21 11:25	08/13/21 18:00
410-51318-12	Pipe 41 (2)	Solid	08/13/21 11:35	08/13/21 18:00
410-51318-13	Trip Blank	Water	08/13/21 00:00	08/13/21 18:00

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-51318 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: DH / TM	Lab PM: Carter, Amek A	COC No: 410-31049-9562 6
Client Contact: Mark Schaeffer	Phone: 4844673657	E-Mail: Loran.Carter@eurofinset.com	Page: Page 6 of 8
Company: Stantec Consulting Corp.	PWSID:		Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:	Analysis Requested	Preservation Codes:
City: West Chester	TAT Requested (days): 5 days		
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No		
Phone:	PO #: Purchase Order Requested		
Email: mark.schaeffer@stantec.com	WO #:		
Project Name: PBF Logistics	Project #: 41007459		
Site: 51st Street Terminal	SSOW#:		

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
Pipe 63 (2)	8/12/21	1140	G	Solid		X	X			
Pipe 62 (2)	8/12/21	1150	G	Solid		X	X			
1044 - P1 (3)	8/12/21	1200	G	Solid		X	X			
1044 - P3 (3)	8/12/21	1230	G	Solid		X	X			
049 - P5 (3)	8/13/21	0920	G	Solid		X	X			
1044 - P2 (3)	8/13/21	0900	G	Solid		X	X			
2045 - P2 (3)	8/13/21	0950	G	Solid		X	X			
2045 - P4 (3)	8/13/21	1015	G	Solid		X	X			
2045 - P5 (3)	8/13/21	1040	G	Solid		X	X			
Pipe 43 (2)	8/13/21	1105	G	Solid		X	X			
Pipe 42 (2)	8/13/21	1125	G	Solid		X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/13/21 1305	Stantec		8/13/21 13:05	ELE
2		8/13/21 18:00	ELE			
3					8/13/21 18:00	ELE

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.6 °C

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: DH / TM	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-31049-9562.7
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 7 of 8
Company: Stantec Consulting Corp.	PWSID:	Analysis Requested		Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			Other:
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	A		
Pipe 41 (2)	8/13/21	1135	G	Solid		X	X			
Trip Blank	8/13/21	—	G	Solid				X		
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/13/21 1305	Stantec		8/13/21 1305	ELE
2	Relinquished by	Date/Time 8/13/21 1800	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time 8/13/21 1800	Company ELE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.6°C

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-51318-1

Login Number: 51318

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Knoedler, Christine M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-55731-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
9/27/2021 4:33:10 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Amek Carter
Project Manager
9/27/2021 4:33:10 PM

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Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-55731-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-55731-1

Receipt
The samples were received on 9/20/2021 5:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions
One 4oz soil jar container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 4847-Center (5) (410-55731-7). The container label lists 4847-east (5), while the COC lists 4847-Center (5).

GC/MS VOA
Method 8260C: The following samples were diluted due to the abundance of non-target analytes: 1044-Center (5) (410-55731-1), 649-Center (5) (410-55731-2), 1043-Center (5) (410-55731-3), 1248-Center (5) (410-55731-4), DUP-8 (410-55731-5) and 4847-Center (5) (410-55731-7). Elevated reporting limits (RLs) are provided.

Method 8260C: Internal standard (ISTD) response for t-Butyl alcohol-d10 for the following sample was outside acceptance criteria: 4847-West (5) (410-55731-8). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Client Sample ID: 1044-Center (5) — Lab Sample ID: 410-55731-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	550		490	200	ug/Kg	50	☼	8260C	Total/NA
Anthracene	14	J	24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	75		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	130		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	160		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	98		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	97		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	75		24	5.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	79		24	4.8	ug/Kg	1	☼	8270D	Total/NA
Lead	990		2.0	0.81	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 649-Center (5) — Lab Sample ID: 410-55731-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	37		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	92		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	83		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	98		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	48		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	98		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	15	J	22	4.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	150		22	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	180		22	4.3	ug/Kg	1	☼	8270D	Total/NA
Lead	230		1.7	0.69	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1043-Center (5) — Lab Sample ID: 410-55731-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	4.2	J	20	4.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	100		20	4.9	ug/Kg	1	☼	8270D	Total/NA
Lead	23		1.7	0.67	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 1248-Center (5) — Lab Sample ID: 410-55731-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	19		1.8	0.71	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP-8 — Lab Sample ID: 410-55731-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	16		1.7	0.68	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 4847-East (5) — Lab Sample ID: 410-55731-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17		1.5	0.60	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 4847-Center (5) — Lab Sample ID: 410-55731-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		1.5	0.59	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Client Sample ID: 4847-West (5)

Lab Sample ID: 410-55731-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		1.2	0.48	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-55731-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 1044-Center (5)

Lab Sample ID: 410-55731-1

Date Collected: 09/16/21 10:35
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 68.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		490	39	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
1,2-Dichloroethane	ND		490	59	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
1,3,5-Trimethylbenzene	ND		490	49	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
Toluene	ND		490	59	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
Xylenes, Total	ND		980	140	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
Methyl tertiary butyl ether	ND		490	49	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
Benzene	ND		490	49	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
Naphthalene	**550**		490	200	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
1,2,4-Trimethylbenzene	ND		490	49	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
Isopropylbenzene	ND		490	39	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50
1,2-Dibromoethane	ND		490	39	ug/Kg	☼	09/22/21 10:31	09/24/21 14:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*09/22/21 10:31*	*09/24/21 14:19*	*50*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*09/22/21 10:31*	*09/24/21 14:19*	*50*
Dibromofluoromethane (Surr)	*110*		*50 - 141*	*09/22/21 10:31*	*09/24/21 14:19*	*50*
Toluene-d8 (Surr)	*105*		*52 - 141*	*09/22/21 10:31*	*09/24/21 14:19*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**14**	**J**	24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Benzo[a]anthracene	**75**		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Benzo[a]pyrene	**130**		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Benzo[b]fluoranthene	**160**		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Benzo[g,h,i]perylene	**98**		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Chrysene	**97**		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Fluorene	ND		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Phenanthrene	**75**		24	5.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1
Pyrene	**79**		24	4.8	ug/Kg	☼	09/23/21 08:56	09/24/21 08:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*09/23/21 08:56*	*09/24/21 08:08*	*1*
Nitrobenzene-d5 (Surr)	*62*		*32 - 97*	*09/23/21 08:56*	*09/24/21 08:08*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*09/23/21 08:56*	*09/24/21 08:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**990**		2.0	0.81	mg/Kg	☼	09/22/21 07:51	09/22/21 19:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.3**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: 649-Center (5)

Lab Sample ID: 410-55731-2

Date Collected: 09/16/21 11:25
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 76.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		540	43	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
1,2-Dichloroethane	ND		540	64	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50

Client Sample ID: 649-Center (5)

Lab Sample ID: 410-55731-2

Date Collected: 09/16/21 11:25
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 76.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		540	54	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
Toluene	ND		540	64	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
Xylenes, Total	ND		1100	150	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
Methyl tertiary butyl ether	ND		540	54	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
Benzene	ND		540	54	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
Naphthalene	ND		540	210	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
1,2,4-Trimethylbenzene	ND		540	54	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
Isopropylbenzene	ND		540	43	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50
1,2-Dibromoethane	ND		540	43	ug/Kg	☼	09/22/21 10:31	09/24/21 14:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*09/22/21 10:31*	*09/24/21 14:41*	*50*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*09/22/21 10:31*	*09/24/21 14:41*	*50*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*09/22/21 10:31*	*09/24/21 14:41*	*50*
Toluene-d8 (Surr)	*101*		*52 - 141*	*09/22/21 10:31*	*09/24/21 14:41*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**37**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Benzo[a]anthracene	**92**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Benzo[a]pyrene	**83**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Benzo[b]fluoranthene	**98**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Benzo[g,h,i]perylene	**48**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Chrysene	**98**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Fluorene	**15**	**J**	22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Phenanthrene	**150**		22	5.2	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1
Pyrene	**180**		22	4.3	ug/Kg	☼	09/23/21 08:56	09/24/21 08:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*09/23/21 08:56*	*09/24/21 08:30*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*09/23/21 08:56*	*09/24/21 08:30*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*09/23/21 08:56*	*09/24/21 08:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**230**		1.7	0.69	mg/Kg	☼	09/22/21 07:51	09/22/21 19:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.3**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: 1043-Center (5)

Lab Sample ID: 410-55731-3

Date Collected: 09/16/21 12:20
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		470	38	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
1,2-Dichloroethane	ND		470	57	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
1,3,5-Trimethylbenzene	ND		470	47	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
Toluene	ND		470	57	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50

Client Sample ID: 1043-Center (5)

Lab Sample ID: 410-55731-3

Date Collected: 09/16/21 12:20
Date Received: 09/20/21 17:15

Matrix: Solid
Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		940	130	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
Methyl tertiary butyl ether	ND		470	47	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
Benzene	ND		470	47	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
Naphthalene	ND		470	190	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
1,2,4-Trimethylbenzene	ND		470	47	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
Isopropylbenzene	ND		470	38	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50
1,2-Dibromoethane	ND		470	38	ug/Kg	☼	09/22/21 10:31	09/24/21 15:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*09/22/21 10:31*	*09/24/21 15:03*	*50*
4-Bromofluorobenzene (Surr)	*111*		*50 - 131*	*09/22/21 10:31*	*09/24/21 15:03*	*50*
Dibromofluoromethane (Surr)	*110*		*50 - 141*	*09/22/21 10:31*	*09/24/21 15:03*	*50*
Toluene-d8 (Surr)	*109*		*52 - 141*	*09/22/21 10:31*	*09/24/21 15:03*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Benzo[a]anthracene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Benzo[a]pyrene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Benzo[b]fluoranthene	**4.2**	**J**	20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Benzo[g,h,i]perylene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Chrysene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Fluorene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Phenanthrene	**100**		20	4.9	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1
Pyrene	ND		20	4.1	ug/Kg	☼	09/23/21 08:56	09/24/21 08:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*39 - 100*	*09/23/21 08:56*	*09/24/21 08:53*	*1*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*	*09/23/21 08:56*	*09/24/21 08:53*	*1*
p-Terphenyl-d14 (Surr)	*73*		*45 - 108*	*09/23/21 08:56*	*09/24/21 08:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**23**		1.7	0.67	mg/Kg	☼	09/22/21 07:51	09/22/21 19:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.2**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: 1248-Center (5)

Lab Sample ID: 410-55731-4

Date Collected: 09/16/21 13:00
Date Received: 09/20/21 17:15

Matrix: Solid
Percent Solids: 73.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		370	30	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
1,2-Dichloroethane	ND		370	45	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
1,3,5-Trimethylbenzene	ND		370	37	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
Toluene	ND		370	45	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
Xylenes, Total	ND		750	100	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
Methyl tertiary butyl ether	ND		370	37	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50

Client Sample ID: 1248-Center (5)

Lab Sample ID: 410-55731-4

Date Collected: 09/16/21 13:00
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 73.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		370	37	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
Naphthalene	ND		370	150	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
1,2,4-Trimethylbenzene	ND		370	37	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
Isopropylbenzene	ND		370	30	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50
1,2-Dibromoethane	ND		370	30	ug/Kg	☼	09/22/21 10:31	09/24/21 15:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*54 - 135*	*09/22/21 10:31*	*09/24/21 15:25*	*50*
4-Bromofluorobenzene (Surr)	*122*		*50 - 131*	*09/22/21 10:31*	*09/24/21 15:25*	*50*
Dibromofluoromethane (Surr)	*113*		*50 - 141*	*09/22/21 10:31*	*09/24/21 15:25*	*50*
Toluene-d8 (Surr)	*114*		*52 - 141*	*09/22/21 10:31*	*09/24/21 15:25*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Benzo[a]anthracene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Benzo[a]pyrene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Benzo[b]fluoranthene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Benzo[g,h,i]perylene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Chrysene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Fluorene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Phenanthrene	ND		23	5.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1
Pyrene	ND		23	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 09:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*39 - 100*	*09/23/21 08:56*	*09/24/21 09:16*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*09/23/21 08:56*	*09/24/21 09:16*	*1*
p-Terphenyl-d14 (Surr)	*91*		*45 - 108*	*09/23/21 08:56*	*09/24/21 09:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**19**		1.8	0.71	mg/Kg	☼	09/22/21 07:51	09/22/21 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**27.0**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: DUP-8

Lab Sample ID: 410-55731-5

Date Collected: 09/16/21 00:00
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 70.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		390	31	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
1,2-Dichloroethane	ND		390	47	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
1,3,5-Trimethylbenzene	ND		390	39	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
Toluene	ND		390	47	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
Xylenes, Total	ND		790	110	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
Methyl tertiary butyl ether	ND		390	39	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
Benzene	ND		390	39	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
Naphthalene	ND		390	160	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50

Client Sample ID: DUP-8

Date Collected: 09/16/21 00:00
Date Received: 09/20/21 17:15

Lab Sample ID: 410-55731-5

Matrix: Solid
Percent Solids: 70.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		390	39	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
Isopropylbenzene	ND		390	31	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50
1,2-Dibromoethane	ND		390	31	ug/Kg	☼	09/22/21 10:31	09/24/21 15:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*	*09/22/21 10:31*	*09/24/21 15:47*	*50*
4-Bromofluorobenzene (Surr)	*114*		*50 - 131*	*09/22/21 10:31*	*09/24/21 15:47*	*50*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*09/22/21 10:31*	*09/24/21 15:47*	*50*
Toluene-d8 (Surr)	*106*		*52 - 141*	*09/22/21 10:31*	*09/24/21 15:47*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Benzo[a]anthracene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Benzo[a]pyrene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Benzo[b]fluoranthene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Benzo[g,h,i]perylene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Chrysene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Fluorene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Phenanthrene	ND		23	5.6	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1
Pyrene	ND		23	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*09/23/21 08:56*	*09/24/21 22:04*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*09/23/21 08:56*	*09/24/21 22:04*	*1*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*09/23/21 08:56*	*09/24/21 22:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**16**		1.7	0.68	mg/Kg	☼	09/22/21 07:51	09/22/21 19:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.3**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: 4847-East (5)

Date Collected: 09/16/21 13:45
Date Received: 09/20/21 17:15

Lab Sample ID: 410-55731-6

Matrix: Solid
Percent Solids: 84.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
1,2-Dichloroethane	ND		5.0	0.59	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
Toluene	ND		5.0	0.59	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
Xylenes, Total	ND		9.9	1.4	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
Benzene	ND		5.0	0.50	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
Naphthalene	ND		5.0	2.0	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1

Client Sample ID: 4847-East (5)

Lab Sample ID: 410-55731-6

Date Collected: 09/16/21 13:45
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 84.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg	☼	09/22/21 10:46	09/23/21 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*09/22/21 10:46*	*09/23/21 18:38*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*09/22/21 10:46*	*09/23/21 18:38*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*09/22/21 10:46*	*09/23/21 18:38*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*09/22/21 10:46*	*09/23/21 18:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Benzo[a]anthracene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Benzo[a]pyrene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Benzo[b]fluoranthene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Benzo[g,h,i]perylene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Chrysene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Fluorene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Phenanthrene	ND		20	4.7	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1
Pyrene	ND		20	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*09/23/21 08:56*	*09/24/21 22:27*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*09/23/21 08:56*	*09/24/21 22:27*	*1*
p-Terphenyl-d14 (Surr)	*89*		*45 - 108*	*09/23/21 08:56*	*09/24/21 22:27*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**17**		1.5	0.60	mg/Kg	☼	09/22/21 07:51	09/22/21 19:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.0**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: 4847-Center (5)

Lab Sample ID: 410-55731-7

Date Collected: 09/16/21 14:00
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 85.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		330	27	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
1,2-Dichloroethane	ND		330	40	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
1,3,5-Trimethylbenzene	ND		330	33	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
Toluene	ND		330	40	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
Xylenes, Total	ND		670	93	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
Methyl tertiary butyl ether	ND		330	33	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
Benzene	ND		330	33	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
Naphthalene	ND		330	130	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
1,2,4-Trimethylbenzene	ND		330	33	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
Isopropylbenzene	ND		330	27	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50
1,2-Dibromoethane	ND		330	27	ug/Kg	☼	09/22/21 10:31	09/24/21 16:09	50

Client Sample ID: 4847-Center (5)

Lab Sample ID: 410-55731-7

Date Collected: 09/16/21 14:00
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 85.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*09/22/21 10:31*	*09/24/21 16:09*	*50*
4-Bromofluorobenzene (Surr)	*114*		*50 - 131*	*09/22/21 10:31*	*09/24/21 16:09*	*50*
Dibromofluoromethane (Surr)	*109*		*50 - 141*	*09/22/21 10:31*	*09/24/21 16:09*	*50*
Toluene-d8 (Surr)	*110*		*52 - 141*	*09/22/21 10:31*	*09/24/21 16:09*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Benzo[a]anthracene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Benzo[a]pyrene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Benzo[b]fluoranthene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Benzo[g,h,i]perylene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Chrysene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Fluorene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Phenanthrene	ND		19	4.6	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1
Pyrene	ND		19	3.9	ug/Kg	☼	09/23/21 08:56	09/24/21 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*09/23/21 08:56*	*09/24/21 22:49*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*09/23/21 08:56*	*09/24/21 22:49*	*1*
p-Terphenyl-d14 (Surr)	*97*		*45 - 108*	*09/23/21 08:56*	*09/24/21 22:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		1.5	0.59	mg/Kg	☼	09/22/21 07:51	09/22/21 19:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.4**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: 4847-West (5)

Lab Sample ID: 410-55731-8

Date Collected: 09/16/21 15:15
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 88.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.4	0.51	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
1,2-Dichloroethane	ND		6.4	0.76	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
1,3,5-Trimethylbenzene	ND		6.4	0.64	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
Toluene	ND		6.4	0.76	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
Xylenes, Total	ND		13	1.8	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
Methyl tertiary butyl ether	ND		6.4	0.64	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
Benzene	ND		6.4	0.64	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
Naphthalene	ND		6.4	2.5	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
1,2,4-Trimethylbenzene	ND		6.4	0.64	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
Isopropylbenzene	ND		6.4	0.51	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1
1,2-Dibromoethane	ND		6.4	0.51	ug/Kg	☼	09/22/21 10:46	09/27/21 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*54 - 135*	*09/22/21 10:46*	*09/27/21 14:26*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*09/22/21 10:46*	*09/27/21 14:26*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 141*	*09/22/21 10:46*	*09/27/21 14:26*	*1*

Client Sample ID: 4847-West (5)

Lab Sample ID: 410-55731-8

Date Collected: 09/16/21 15:15
Date Received: 09/20/21 17:15

Matrix: Solid
Percent Solids: 88.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*91*		*52 - 141*	*09/22/21 10:46*	*09/27/21 14:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Benzo[a]anthracene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Benzo[a]pyrene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Benzo[b]fluoranthene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Benzo[g,h,i]perylene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Chrysene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Fluorene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Phenanthrene	ND		19	4.5	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1
Pyrene	ND		19	3.7	ug/Kg	☼	09/23/21 08:56	09/24/21 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*09/23/21 08:56*	*09/24/21 23:12*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*09/23/21 08:56*	*09/24/21 23:12*	*1*
p-Terphenyl-d14 (Surr)	*90*		*45 - 108*	*09/23/21 08:56*	*09/24/21 23:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**18**		1.2	0.48	mg/Kg	☼	09/22/21 07:51	09/22/21 20:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.4**		1.0	1.0	%			09/21/21 20:52	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-55731-9

Date Collected: 09/16/21 00:00
Date Received: 09/20/21 17:15

Matrix: Water

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			09/22/21 13:56	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/22/21 13:56	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/22/21 13:56	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			09/22/21 13:56	1
Toluene	ND		1.0	0.30	ug/L			09/22/21 13:56	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/22/21 13:56	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/22/21 13:56	1
Benzene	ND		1.0	0.30	ug/L			09/22/21 13:56	1
Naphthalene	ND		5.0	1.0	ug/L			09/22/21 13:56	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			09/22/21 13:56	1
Isopropylbenzene	ND		5.0	0.30	ug/L			09/22/21 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/22/21 13:56*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/22/21 13:56*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*09/22/21 13:56*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/22/21 13:56*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-55731-1	1044-Center (5)	111	96	110	105
410-55731-2	649-Center (5)	111	92	109	101
410-55731-3	1043-Center (5)	113	111	110	109
410-55731-4	1248-Center (5)	116	122	113	114
410-55731-5	DUP-8	106	114	106	106
410-55731-6	4847-East (5)	111	91	104	95
410-55731-7	4847-Center (5)	111	114	109	110
410-55731-8	4847-West (5)	117	93	107	91
LCS 410-174574/4	Lab Control Sample	104	93	102	96
LCS 410-174985/4	Lab Control Sample	100	98	99	97
LCS 410-175637/4	Lab Control Sample	102	94	105	94
LCSD 410-174574/5	Lab Control Sample Dup	101	94	101	97
LCSD 410-174985/5	Lab Control Sample Dup	101	98	98	97
LCSD 410-175637/5	Lab Control Sample Dup	103	94	105	94
MB 410-174574/7	Method Blank	104	92	104	94
MB 410-174985/7	Method Blank	99	97	95	97
MB 410-175637/7	Method Blank	105	90	106	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-55731-9	Trip Blank	98	98	95	102
LCS 410-174114/4	Lab Control Sample	100	101	95	103
LCSD 410-174114/5	Lab Control Sample Dup	102	101	96	103
MB 410-174114/6	Method Blank	100	99	96	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-55731-1	1044-Center (5)	74	62	83
410-55731-2	649-Center (5)	74	63	83
410-55731-3	1043-Center (5)	68	61	73
410-55731-4	1248-Center (5)	82	74	91

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 410-55731-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)						
410-55731-5	DUP-8	79	68	87						
410-55731-6	4847-East (5)	80	74	89						
410-55731-7	4847-Center (5)	85	74	97						
410-55731-8	4847-West (5)	80	72	90						
LCS 410-174459/2-A	Lab Control Sample	75	75	88						
MB 410-174459/1-A	Method Blank	86	83	99						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-174574/7
Matrix: Solid
Analysis Batch: 174574

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/23/21 13:30	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/23/21 13:30	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/23/21 13:30	1
Toluene	ND		5.0	0.60	ug/Kg			09/23/21 13:30	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/23/21 13:30	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			09/23/21 13:30	1
Benzene	ND		5.0	0.50	ug/Kg			09/23/21 13:30	1
Naphthalene	ND		5.0	2.0	ug/Kg			09/23/21 13:30	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/23/21 13:30	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			09/23/21 13:30	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/23/21 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*09/23/21 13:30*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*		*09/23/21 13:30*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*		*09/23/21 13:30*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*		*09/23/21 13:30*	*1*

Lab Sample ID: LCS 410-174574/4
Matrix: Solid
Analysis Batch: 174574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	18.3		ug/Kg		92	78 - 120
1,2-Dichloroethane	20.0	20.2		ug/Kg		101	71 - 128
1,3,5-Trimethylbenzene	20.0	17.4		ug/Kg		87	73 - 120
Toluene	20.0	18.0		ug/Kg		90	80 - 120
Xylenes, Total	60.0	55.9		ug/Kg		93	75 - 120
Methyl tertiary butyl ether	20.0	18.3		ug/Kg		92	72 - 120
Benzene	20.0	19.0		ug/Kg		95	80 - 120
Naphthalene	20.0	17.4		ug/Kg		87	48 - 130
1,2,4-Trimethylbenzene	20.0	17.5		ug/Kg		88	73 - 120
Isopropylbenzene	20.0	18.5		ug/Kg		92	77 - 120
1,2-Dibromoethane	20.0	19.7		ug/Kg		98	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*96*		*52 - 141*

Lab Sample ID: LCSD 410-174574/5
Matrix: Solid
Analysis Batch: 174574

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	17.4		ug/Kg		87	78 - 120	5	30
1,2-Dichloroethane	20.0	19.1		ug/Kg		96	71 - 128	6	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-174574/5
Matrix: Solid
Analysis Batch: 174574

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	16.6		ug/Kg		83	73 - 120	5	30
Toluene			20.0	17.4		ug/Kg		87	80 - 120	3	30
Xylenes, Total			60.0	53.9		ug/Kg		90	75 - 120	4	30
Methyl tertiary butyl ether			20.0	17.0		ug/Kg		85	72 - 120	7	30
Benzene			20.0	18.4		ug/Kg		92	80 - 120	3	30
Naphthalene			20.0	15.0		ug/Kg		75	48 - 130	15	30
1,2,4-Trimethylbenzene			20.0	16.5		ug/Kg		83	73 - 120	6	30
Isopropylbenzene			20.0	17.5		ug/Kg		87	77 - 120	5	30
1,2-Dibromoethane			20.0	17.9		ug/Kg		90	76 - 120	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*101*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: MB 410-174985/7
Matrix: Solid
Analysis Batch: 174985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			09/24/21 11:53	50
1,2-Dichloroethane	ND		250	30	ug/Kg			09/24/21 11:53	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			09/24/21 11:53	50
Toluene	ND		250	30	ug/Kg			09/24/21 11:53	50
Xylenes, Total	ND		500	70	ug/Kg			09/24/21 11:53	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			09/24/21 11:53	50
Benzene	ND		250	25	ug/Kg			09/24/21 11:53	50
Naphthalene	ND		250	100	ug/Kg			09/24/21 11:53	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			09/24/21 11:53	50
Isopropylbenzene	ND		250	20	ug/Kg			09/24/21 11:53	50
1,2-Dibromoethane	ND		250	20	ug/Kg			09/24/21 11:53	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*		*09/24/21 11:53*	*50*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*		*09/24/21 11:53*	*50*
Dibromofluoromethane (Surr)	*95*		*50 - 141*		*09/24/21 11:53*	*50*
Toluene-d8 (Surr)	*97*		*52 - 141*		*09/24/21 11:53*	*50*

Lab Sample ID: LCS 410-174985/4
Matrix: Solid
Analysis Batch: 174985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			1000	1010		ug/Kg		101	78 - 120
1,2-Dichloroethane			1000	1060		ug/Kg		106	71 - 128
1,3,5-Trimethylbenzene			1000	1010		ug/Kg		101	73 - 120
Toluene			1000	1020		ug/Kg		102	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-174985/4
Matrix: Solid
Analysis Batch: 174985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	3000	3040		ug/Kg		101	75 - 120
Methyl tertiary butyl ether	1000	1030		ug/Kg		103	72 - 120
Benzene	1000	1030		ug/Kg		103	80 - 120
Naphthalene	1000	998		ug/Kg		100	48 - 130
1,2,4-Trimethylbenzene	1000	1030		ug/Kg		103	73 - 120
Isopropylbenzene	1000	1040		ug/Kg		104	77 - 120
1,2-Dibromoethane	1000	1030		ug/Kg		103	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: LCSD 410-174985/5
Matrix: Solid
Analysis Batch: 174985

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	1000	1020		ug/Kg		102	78 - 120	0	30
1,2-Dichloroethane	1000	1060		ug/Kg		106	71 - 128	0	30
1,3,5-Trimethylbenzene	1000	1020		ug/Kg		102	73 - 120	0	30
Toluene	1000	1010		ug/Kg		101	80 - 120	1	30
Xylenes, Total	3000	3030		ug/Kg		101	75 - 120	0	30
Methyl tertiary butyl ether	1000	1020		ug/Kg		102	72 - 120	1	30
Benzene	1000	1030		ug/Kg		103	80 - 120	0	30
Naphthalene	1000	988		ug/Kg		99	48 - 130	1	30
1,2,4-Trimethylbenzene	1000	1030		ug/Kg		103	73 - 120	0	30
Isopropylbenzene	1000	1050		ug/Kg		105	77 - 120	0	30
1,2-Dibromoethane	1000	1030		ug/Kg		103	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*
Dibromofluoromethane (Surr)	*98*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: MB 410-175637/7
Matrix: Solid
Analysis Batch: 175637

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/27/21 12:10	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/27/21 12:10	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/27/21 12:10	1
Toluene	ND		5.0	0.60	ug/Kg			09/27/21 12:10	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/27/21 12:10	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			09/27/21 12:10	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-175637/7
Matrix: Solid
Analysis Batch: 175637

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.50	ug/Kg			09/27/21 12:10	1
Naphthalene	ND		5.0	2.0	ug/Kg			09/27/21 12:10	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/27/21 12:10	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			09/27/21 12:10	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/27/21 12:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*		*09/27/21 12:10*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*		*09/27/21 12:10*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*		*09/27/21 12:10*	*1*
Toluene-d8 (Surr)	*92*		*52 - 141*		*09/27/21 12:10*	*1*

Lab Sample ID: LCS 410-175637/4
Matrix: Solid
Analysis Batch: 175637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	18.5		ug/Kg		92	78 - 120		
1,2-Dichloroethane			20.0	21.4		ug/Kg		107	71 - 128		
1,3,5-Trimethylbenzene			20.0	17.5		ug/Kg		88	73 - 120		
Toluene			20.0	18.3		ug/Kg		91	80 - 120		
Xylenes, Total			60.0	57.1		ug/Kg		95	75 - 120		
Methyl tertiary butyl ether			20.0	20.2		ug/Kg		101	72 - 120		
Benzene			20.0	20.1		ug/Kg		100	80 - 120		
Naphthalene			20.0	18.0		ug/Kg		90	48 - 130		
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		90	73 - 120		
Isopropylbenzene			20.0	19.3		ug/Kg		97	77 - 120		
1,2-Dibromoethane			20.0	19.9		ug/Kg		99	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*105*		*50 - 141*
Toluene-d8 (Surr)	*94*		*52 - 141*

Lab Sample ID: LCSD 410-175637/5
Matrix: Solid
Analysis Batch: 175637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	17.9		ug/Kg		89	78 - 120	3	30
1,2-Dichloroethane			20.0	20.9		ug/Kg		105	71 - 128	2	30
1,3,5-Trimethylbenzene			20.0	17.4		ug/Kg		87	73 - 120	1	30
Toluene			20.0	17.7		ug/Kg		88	80 - 120	3	30
Xylenes, Total			60.0	55.8		ug/Kg		93	75 - 120	2	30
Methyl tertiary butyl ether			20.0	19.6		ug/Kg		98	72 - 120	3	30
Benzene			20.0	19.3		ug/Kg		96	80 - 120	4	30
Naphthalene			20.0	18.0		ug/Kg		90	48 - 130	0	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-175637/5
Matrix: Solid
Analysis Batch: 175637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		89	73 - 120	0	30
Isopropylbenzene			20.0	18.5		ug/Kg		92	77 - 120	5	30
1,2-Dibromoethane			20.0	19.4		ug/Kg		97	76 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*105*		*50 - 141*
Toluene-d8 (Surr)	*94*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-174114/6
Matrix: Water
Analysis Batch: 174114

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			09/22/21 12:49	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/22/21 12:49	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/22/21 12:49	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			09/22/21 12:49	1
Toluene	ND		1.0	0.30	ug/L			09/22/21 12:49	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/22/21 12:49	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/22/21 12:49	1
Benzene	ND		1.0	0.30	ug/L			09/22/21 12:49	1
Naphthalene	ND		5.0	1.0	ug/L			09/22/21 12:49	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			09/22/21 12:49	1
Isopropylbenzene	ND		5.0	0.30	ug/L			09/22/21 12:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/22/21 12:49*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/22/21 12:49*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/22/21 12:49*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/22/21 12:49*	*1*

Lab Sample ID: LCS 410-174114/4
Matrix: Water
Analysis Batch: 174114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	19.1		ug/L		95	77 - 120		
Ethylbenzene			20.0	22.8		ug/L		114	80 - 120		
1,2-Dichloroethane			20.0	19.2		ug/L		96	73 - 124		
1,3,5-Trimethylbenzene			20.0	22.2		ug/L		111	75 - 120		
Toluene			20.0	19.9		ug/L		99	80 - 120		
Xylenes, Total			60.0	60.6		ug/L		101	80 - 120		
Methyl tertiary butyl ether			20.0	16.4		ug/L		82	69 - 122		
Benzene			20.0	20.5		ug/L		102	80 - 120		

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-174114/4
Matrix: Water
Analysis Batch: 174114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	20.0	19.0		ug/L		95	53 - 124
1,2,4-Trimethylbenzene	20.0	22.3		ug/L		111	75 - 120
Isopropylbenzene	20.0	19.4		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 410-174114/5
Matrix: Water
Analysis Batch: 174114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	20.0	19.0		ug/L		95	77 - 120	0	30
Ethylbenzene	20.0	22.5		ug/L		113	80 - 120	1	30
1,2-Dichloroethane	20.0	19.6		ug/L		98	73 - 124	2	30
1,3,5-Trimethylbenzene	20.0	22.0		ug/L		110	75 - 120	1	30
Toluene	20.0	19.6		ug/L		98	80 - 120	1	30
Xylenes, Total	60.0	59.4		ug/L		99	80 - 120	2	30
Methyl tertiary butyl ether	20.0	20.3		ug/L		102	69 - 122	21	30
Benzene	20.0	20.7		ug/L		103	80 - 120	1	30
Naphthalene	20.0	21.0		ug/L		105	53 - 124	10	30
1,2,4-Trimethylbenzene	20.0	22.2		ug/L		111	75 - 120	0	30
Isopropylbenzene	20.0	19.5		ug/L		97	80 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-174459/1-A
Matrix: Solid
Analysis Batch: 174838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Chrysene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Fluorene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1
Phenanthrene	ND		17	4.0	ug/Kg		09/23/21 08:56	09/23/21 20:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-174459/1-A
Matrix: Solid
Analysis Batch: 174838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		17	3.3	ug/Kg		09/23/21 08:56	09/23/21 20:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*39 - 100*	*09/23/21 08:56*	*09/23/21 20:59*	*1*
Nitrobenzene-d5 (Surr)	*83*		*32 - 97*	*09/23/21 08:56*	*09/23/21 20:59*	*1*
p-Terphenyl-d14 (Surr)	*99*		*45 - 108*	*09/23/21 08:56*	*09/23/21 20:59*	*1*

Lab Sample ID: LCS 410-174459/2-A
Matrix: Solid
Analysis Batch: 174838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174459

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1420		ug/Kg		85	75 - 120
Benzo[a]anthracene	1670	1460		ug/Kg		87	73 - 120
Benzo[a]pyrene	1670	1480		ug/Kg		89	80 - 123
Benzo[b]fluoranthene	1670	1360		ug/Kg		82	63 - 120
Benzo[g,h,i]perylene	1670	1470		ug/Kg		88	77 - 120
Chrysene	1670	1330		ug/Kg		80	66 - 120
Fluorene	1670	1320		ug/Kg		79	68 - 120
Phenanthrene	1670	1340		ug/Kg		81	74 - 120
Pyrene	1670	1310		ug/Kg		79	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*39 - 100*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-174031/1-A
Matrix: Solid
Analysis Batch: 174409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		09/22/21 07:51	09/22/21 19:07	1

Lab Sample ID: LCS 410-174031/2-A
Matrix: Solid
Analysis Batch: 174409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.61		mg/Kg		112	80 - 120

Lab Sample ID: LCSD 410-174031/3-A
Matrix: Solid
Analysis Batch: 174409

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 174031

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	5.00	5.62		mg/Kg		112	80 - 120	0	20

GC/MS VOA

Analysis Batch: 174114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-9	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-174114/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-174114/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-174114/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Prep Batch: 174133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	5035	
410-55731-2	649-Center (5)	Total/NA	Solid	5035	
410-55731-3	1043-Center (5)	Total/NA	Solid	5035	
410-55731-4	1248-Center (5)	Total/NA	Solid	5035	
410-55731-5	DUP-8	Total/NA	Solid	5035	
410-55731-7	4847-Center (5)	Total/NA	Solid	5035	

Prep Batch: 174140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-6	4847-East (5)	Total/NA	Solid	5035	
410-55731-8	4847-West (5)	Total/NA	Solid	5035	

Analysis Batch: 174574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-6	4847-East (5)	Total/NA	Solid	8260C	174140
MB 410-174574/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-174574/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-174574/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 174985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	8260C	174133
410-55731-2	649-Center (5)	Total/NA	Solid	8260C	174133
410-55731-3	1043-Center (5)	Total/NA	Solid	8260C	174133
410-55731-4	1248-Center (5)	Total/NA	Solid	8260C	174133
410-55731-5	DUP-8	Total/NA	Solid	8260C	174133
410-55731-7	4847-Center (5)	Total/NA	Solid	8260C	174133
MB 410-174985/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-174985/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-174985/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 175637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-8	4847-West (5)	Total/NA	Solid	8260C	174140
MB 410-175637/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-175637/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-175637/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 174459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	3546	
410-55731-2	649-Center (5)	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 174459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-3	1043-Center (5)	Total/NA	Solid	3546	
410-55731-4	1248-Center (5)	Total/NA	Solid	3546	
410-55731-5	DUP-8	Total/NA	Solid	3546	
410-55731-6	4847-East (5)	Total/NA	Solid	3546	
410-55731-7	4847-Center (5)	Total/NA	Solid	3546	
410-55731-8	4847-West (5)	Total/NA	Solid	3546	
MB 410-174459/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-174459/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 174838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-174459/1-A	Method Blank	Total/NA	Solid	8270D	174459
LCS 410-174459/2-A	Lab Control Sample	Total/NA	Solid	8270D	174459

Analysis Batch: 174870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	8270D	174459
410-55731-2	649-Center (5)	Total/NA	Solid	8270D	174459
410-55731-3	1043-Center (5)	Total/NA	Solid	8270D	174459
410-55731-4	1248-Center (5)	Total/NA	Solid	8270D	174459

Analysis Batch: 175105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-5	DUP-8	Total/NA	Solid	8270D	174459
410-55731-6	4847-East (5)	Total/NA	Solid	8270D	174459
410-55731-7	4847-Center (5)	Total/NA	Solid	8270D	174459
410-55731-8	4847-West (5)	Total/NA	Solid	8270D	174459

Metals

Prep Batch: 174031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	3050B	
410-55731-2	649-Center (5)	Total/NA	Solid	3050B	
410-55731-3	1043-Center (5)	Total/NA	Solid	3050B	
410-55731-4	1248-Center (5)	Total/NA	Solid	3050B	
410-55731-5	DUP-8	Total/NA	Solid	3050B	
410-55731-6	4847-East (5)	Total/NA	Solid	3050B	
410-55731-7	4847-Center (5)	Total/NA	Solid	3050B	
410-55731-8	4847-West (5)	Total/NA	Solid	3050B	
MB 410-174031/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-174031/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 410-174031/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

Analysis Batch: 174409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	6010C	174031
410-55731-2	649-Center (5)	Total/NA	Solid	6010C	174031
410-55731-3	1043-Center (5)	Total/NA	Solid	6010C	174031
410-55731-4	1248-Center (5)	Total/NA	Solid	6010C	174031
410-55731-5	DUP-8	Total/NA	Solid	6010C	174031

Metals (Continued)

Analysis Batch: 174409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-6	4847-East (5)	Total/NA	Solid	6010C	174031
410-55731-7	4847-Center (5)	Total/NA	Solid	6010C	174031
410-55731-8	4847-West (5)	Total/NA	Solid	6010C	174031
MB 410-174031/1-A	Method Blank	Total/NA	Solid	6010C	174031
LCS 410-174031/2-A	Lab Control Sample	Total/NA	Solid	6010C	174031
LCSD 410-174031/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	174031

General Chemistry

Analysis Batch: 173933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-55731-1	1044-Center (5)	Total/NA	Solid	Moisture	
410-55731-2	649-Center (5)	Total/NA	Solid	Moisture	
410-55731-3	1043-Center (5)	Total/NA	Solid	Moisture	
410-55731-4	1248-Center (5)	Total/NA	Solid	Moisture	
410-55731-5	DUP-8	Total/NA	Solid	Moisture	
410-55731-6	4847-East (5)	Total/NA	Solid	Moisture	
410-55731-7	4847-Center (5)	Total/NA	Solid	Moisture	
410-55731-8	4847-West (5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Client Sample ID: 1044-Center (5)

Lab Sample ID: 410-55731-1

Date Collected: 09/16/21 10:35

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: 1044-Center (5)

Lab Sample ID: 410-55731-1

Date Collected: 09/16/21 10:35

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174133	09/22/21 10:31	JJT8	ELLE
Total/NA	Analysis	8260C		50	174985	09/24/21 14:19	SWV2	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	174870	09/24/21 08:08	UWHS	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:34	XQY5	ELLE

Client Sample ID: 649-Center (5)

Lab Sample ID: 410-55731-2

Date Collected: 09/16/21 11:25

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: 649-Center (5)

Lab Sample ID: 410-55731-2

Date Collected: 09/16/21 11:25

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174133	09/22/21 10:31	JJT8	ELLE
Total/NA	Analysis	8260C		50	174985	09/24/21 14:41	SWV2	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	174870	09/24/21 08:30	UWHS	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:37	XQY5	ELLE

Client Sample ID: 1043-Center (5)

Lab Sample ID: 410-55731-3

Date Collected: 09/16/21 12:20

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: 1043-Center (5)

Lab Sample ID: 410-55731-3

Date Collected: 09/16/21 12:20

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174133	09/22/21 10:31	JJT8	ELLE
Total/NA	Analysis	8260C		50	174985	09/24/21 15:03	SWV2	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	174870	09/24/21 08:53	UWHS	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:41	XQY5	ELLE

Client Sample ID: 1248-Center (5)

Lab Sample ID: 410-55731-4

Date Collected: 09/16/21 13:00

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: 1248-Center (5)

Lab Sample ID: 410-55731-4

Date Collected: 09/16/21 13:00

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 73.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174133	09/22/21 10:31	JJT8	ELLE
Total/NA	Analysis	8260C		50	174985	09/24/21 15:25	SWV2	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	174870	09/24/21 09:16	UWHS	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:44	XQY5	ELLE

Client Sample ID: DUP-8

Lab Sample ID: 410-55731-5

Date Collected: 09/16/21 00:00

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: DUP-8

Lab Sample ID: 410-55731-5

Date Collected: 09/16/21 00:00

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174133	09/22/21 10:31	JJT8	ELLE
Total/NA	Analysis	8260C		50	174985	09/24/21 15:47	SWV2	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	175105	09/24/21 22:04	SJ89	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:48	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Client Sample ID: 4847-East (5)

Lab Sample ID: 410-55731-6

Date Collected: 09/16/21 13:45

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: 4847-East (5)

Lab Sample ID: 410-55731-6

Date Collected: 09/16/21 13:45

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174140	09/22/21 10:46	JJT8	ELLE
Total/NA	Analysis	8260C		1	174574	09/23/21 18:38	ULCP	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	175105	09/24/21 22:27	SJ89	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:51	XQY5	ELLE

Client Sample ID: 4847-Center (5)

Lab Sample ID: 410-55731-7

Date Collected: 09/16/21 14:00

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Client Sample ID: 4847-Center (5)

Lab Sample ID: 410-55731-7

Date Collected: 09/16/21 14:00

Matrix: Solid

Date Received: 09/20/21 17:15

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174133	09/22/21 10:31	JJT8	ELLE
Total/NA	Analysis	8260C		50	174985	09/24/21 16:09	SWV2	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	175105	09/24/21 22:49	SJ89	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 19:55	XQY5	ELLE

Client Sample ID: 4847-West (5)

Lab Sample ID: 410-55731-8

Date Collected: 09/16/21 15:15

Matrix: Solid

Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	173933	09/21/21 20:52	OEL4	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Client Sample ID: 4847-West (5)

Lab Sample ID: 410-55731-8

Date Collected: 09/16/21 15:15
Matrix: Solid
Date Received: 09/20/21 17:15
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			174140	09/22/21 10:46	JJT8	ELLE
Total/NA	Analysis	8260C		1	175637	09/27/21 14:26	USEJ	ELLE
Total/NA	Prep	3546			174459	09/23/21 08:56	U9KU	ELLE
Total/NA	Analysis	8270D		1	175105	09/24/21 23:12	SJ89	ELLE
Total/NA	Prep	3050B			174031	09/22/21 07:51	UAMX	ELLE
Total/NA	Analysis	6010C		1	174409	09/22/21 20:05	XQY5	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-55731-9

Date Collected: 09/16/21 00:00
Matrix: Water
Date Received: 09/20/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	174114	09/22/21 13:56	MXX6	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-55731-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-55731-1	1044-Center (5)	Solid	09/16/21 10:35	09/20/21 17:15
410-55731-2	649-Center (5)	Solid	09/16/21 11:25	09/20/21 17:15
410-55731-3	1043-Center (5)	Solid	09/16/21 12:20	09/20/21 17:15
410-55731-4	1248-Center (5)	Solid	09/16/21 13:00	09/20/21 17:15
410-55731-5	DUP-8	Solid	09/16/21 00:00	09/20/21 17:15
410-55731-6	4847-East (5)	Solid	09/16/21 13:45	09/20/21 17:15
410-55731-7	4847-Center (5)	Solid	09/16/21 14:00	09/20/21 17:15
410-55731-8	4847-West (5)	Solid	09/16/21 15:15	09/20/21 17:15
410-55731-9	Trip Blank	Water	09/16/21 00:00	09/20/21 17:15

, LLC

Chain of Custody Record

eurofins Environment Testing America

410-55731 Chain of Custody

Client Contact: Mark Schaeffer	Sampler: Ian Andrea Dana Holstad	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-33899-9562.1
Company: Stantec Consulting Corp.	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 1 of 2
Address: 1060 Andrew Drive Suite 140	PWSID:	Analysis Requested		Job #:
City: West Chester	Due Date Requested:			Preservation Codes:
State, Zip: PA, 19380	TAT Requested (days): 5 dall			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Phone:	Compliance Project: Δ Yes Δ No			Other:
Email: mark.schaeffer@stantec.com	PO #: 213403451			
Project Name: PBF Logistics	WO #:			
Site: 51st Street Terminal	Project #: 41007459			
	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	MS/MSD	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of	Special Instructions/Note:
			Preservation Code:				T	N	A		
1044 - Center (5)	9/16/21	1035	G	Solid			X	X			
649 - Center (5)	9/16/21	1125	G	Solid			X	X			
1043 - Center (5)	9/16/21	1220	G	Solid			X	X			
1248 - Center (5)	9/16/21	1300	G	Solid			X	X			
DUP - 8	9/16/21	—	G	Solid			X	X			
4847 - east (5)	9/16/21	1345	G	Solid			X	X			
4847 - Center (5)	9/16/21	1400	G	Solid			X	X			
4847 - West (5)	9/16/21	1515	G	Solid			X	X			
Trip Blank	9/16/21	—	—	Solid					X		
				Solid							
				Solid							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time	Company: Stantec	Received by:	Date/Time: 9-20-21 1338	Company: Eurofins		
Relinquished by:	Date/Time: 9-20-21 1715	Company: Eurofins	Received by:	Date/Time	Company		
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 9/20/21 1715	Company: EUFT		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.0				

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-55731-1

Login Number: 55731

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Leakway, Christian

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-56522-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
10/1/2021 5:22:35 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
10/1/2021 5:22:35 PM

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Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-56522-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-56522-1

Receipt
The samples were received on 9/24/2021 7:31 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 2040-Center (5) (410-56522-2). The container labels list time of 09:14, while the COC lists time of 09:15. The collection time was logged per the COC.

GC/MS VOA
Method 8260C: The following sample was diluted due to the abundance of non-target analytes: 7550-P4 (3) (410-56522-13). Elevated reporting limits (RLs) are provided.

Method 8260C: Surrogate recovery for the following sample was outside control limits: 7550-P1 (3) (410-56522-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D: Surrogate recovery for the following sample was outside acceptance limits: DUP-9 (410-56522-16). The was contacted and the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Client Sample ID: 4847-P5 (3) — Lab Sample ID: 410-56522-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		1.8	0.71	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2040-Center (5) — Lab Sample ID: 410-56522-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	17	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	17	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	18	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	8.6	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Chrysene	35		26	5.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	17	J	26	6.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	22	J	26	5.1	ug/Kg	1	☼	8270D	Total/NA
Lead	24		2.2	0.86	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 2045-Center (5) — Lab Sample ID: 410-56522-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	7.4	J	25	5.9	ug/Kg	1	☼	8270D	Total/NA
Lead	6.7		1.9	0.74	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 941-Center (5) — Lab Sample ID: 410-56522-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	45000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]anthracene	49000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]pyrene	35000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Benzo[b]fluoranthene	38000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Benzo[g,h,i]perylene	17000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Chrysene	41000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Fluorene	24000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Phenanthrene	150000		1100	270	ug/Kg	50	☼	8270D	Total/NA
Pyrene	89000		1100	220	ug/Kg	50	☼	8270D	Total/NA
Lead	560		1.9	0.75	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-Center (5) — Lab Sample ID: 410-56522-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	2.3	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.8	J	7.3	0.73	ug/Kg	1	☼	8260C	Total/NA
Anthracene	84		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	190		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	240		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	160		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	230		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	54		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	320		27	6.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	410		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Lead	88		1.9	0.75	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Client Sample ID: 7550-P2 (3) — Lab Sample ID: 410-56522-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	5.8	J	7.0	0.70	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.3	J	7.0	0.84	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	4.2	J	14	2.0	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.1	J	7.0	0.70	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	4.8	J	7.0	0.70	ug/Kg	1	☼	8260C	Total/NA
Anthracene	400		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1700		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1600		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2100		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1100		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	1600		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	130		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1300		23	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	2500		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	170		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-P1 (3) — Lab Sample ID: 410-56522-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	5.2	J	9.2	0.73	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	230		9.2	0.92	ug/Kg	1	☼	8260C	Total/NA
Toluene	12		9.2	1.1	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	99		18	2.6	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.9	J	9.2	0.92	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	54		9.2	3.7	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	350		9.2	0.92	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	5.1	J	9.2	0.73	ug/Kg	1	☼	8260C	Total/NA
1,2-Dibromoethane	0.89	J	9.2	0.73	ug/Kg	1	☼	8260C	Total/NA
Anthracene	230		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	970		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1200		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1300		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	840		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	920		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	93		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	780		30	7.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1200		30	5.9	ug/Kg	1	☼	8270D	Total/NA
Lead	690		2.4	0.96	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-P7 (3) — Lab Sample ID: 410-56522-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	4.1	J	7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.2	J	7.5	0.90	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.7	J	15	2.1	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.9	J	7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	3.9	J	7.5	0.75	ug/Kg	1	☼	8260C	Total/NA
Anthracene	32		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	110		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	120		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	140		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	98		27	5.4	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 7550-P7 (3) (Continued) — Lab Sample ID: 410-56522-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	110		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	15	J	27	5.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	170		27	6.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	190		27	5.4	ug/Kg	1	☼	8270D	Total/NA
Lead	85		2.1	0.82	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-P6 (3) — Lab Sample ID: 410-56522-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	3.8	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.7	J	9.6	1.2	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.98	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	6.2	J	9.6	3.9	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	4.3	J	9.6	0.96	ug/Kg	1	☼	8260C	Total/NA
Anthracene	230		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	680		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	480		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	680		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	300		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	650		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	54		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	790		26	6.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1500		26	5.2	ug/Kg	1	☼	8270D	Total/NA
Lead	87		2.2	0.90	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-P3 (3) — Lab Sample ID: 410-56522-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.77	J	6.2	0.75	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.74	J	6.2	0.62	ug/Kg	1	☼	8260C	Total/NA
Anthracene	400		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1600		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1600		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2000		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1100		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Chrysene	1600		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	190		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1200		21	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	2600		21	4.2	ug/Kg	1	☼	8270D	Total/NA
Lead	48		1.8	0.72	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: UNK-ST-W (3) — Lab Sample ID: 410-56522-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	3.2	J	8.4	0.84	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.1	J	8.4	1.0	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.0	J	17	2.3	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.5	J	8.4	0.84	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2.3	J	8.4	0.84	ug/Kg	1	☼	8260C	Total/NA
Anthracene	210		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1000		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	770		27	5.5	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: UNK-ST-W (3) (Continued)

Lab Sample ID: 410-56522-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	1100		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	500		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Chrysene	1100		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	54		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	630		27	6.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	2500		27	5.5	ug/Kg	1	☼	8270D	Total/NA
Lead	120		2.3	0.93	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: UNK-ST-E (3)

Lab Sample ID: 410-56522-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.1	J	5.8	0.47	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	6.9		5.8	0.58	ug/Kg	1	☼	8260C	Total/NA
Toluene	5.7	J	5.8	0.70	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	11	J	12	1.6	ug/Kg	1	☼	8260C	Total/NA
Benzene	4.1	J	5.8	0.58	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	9.0		5.8	2.3	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	4.9	J	5.8	0.58	ug/Kg	1	☼	8260C	Total/NA
Anthracene	59		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	250		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	220		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	310		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	180		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	250		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	28		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	220		23	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	410		23	4.6	ug/Kg	1	☼	8270D	Total/NA
Lead	49		1.8	0.73	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-P4 (3)

Lab Sample ID: 410-56522-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	63	J	400	40	ug/Kg	50	☼	8260C	Total/NA
Toluene	59	J	400	48	ug/Kg	50	☼	8260C	Total/NA
Xylenes, Total	180	J	810	110	ug/Kg	50	☼	8260C	Total/NA
Naphthalene	260	J	400	160	ug/Kg	50	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	87	J	400	40	ug/Kg	50	☼	8260C	Total/NA
Anthracene	3400		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	8900		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	7300		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	9700		210	42	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5000		210	42	ug/Kg	10	☼	8270D	Total/NA
Chrysene	8200		210	42	ug/Kg	10	☼	8270D	Total/NA
Fluorene	1800		210	42	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	15000		210	51	ug/Kg	10	☼	8270D	Total/NA
Pyrene	16000		210	42	ug/Kg	10	☼	8270D	Total/NA
Lead	150		1.4	0.56	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550-P5 (3)

Lab Sample ID: 410-56522-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	16		8.6	0.86	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 7550-P5 (3) (Continued)

Lab Sample ID: 410-56522-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.7	J	8.6	1.0	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	18		17	2.4	ug/Kg	1	☼	8260C	Total/NA
Benzene	2.5	J	8.6	0.86	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	8.0	J	8.6	3.5	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	9.0		8.6	0.86	ug/Kg	1	☼	8260C	Total/NA
Anthracene	4600		260	52	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	9400		260	52	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	9100		260	52	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	12000		260	52	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	6600		260	52	ug/Kg	10	☼	8270D	Total/NA
Chrysene	9900		260	52	ug/Kg	10	☼	8270D	Total/NA
Fluorene	1900		260	52	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	16000		260	62	ug/Kg	10	☼	8270D	Total/NA
Pyrene	18000		260	52	ug/Kg	10	☼	8270D	Total/NA
Lead	120		2.2	0.87	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551-Center (5)

Lab Sample ID: 410-56522-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	29		9.0	0.90	ug/Kg	1	☼	8260C	Total/NA
Anthracene	25	J	32	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	37		32	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	60		32	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	76		32	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	60		32	6.3	ug/Kg	1	☼	8270D	Total/NA
Chrysene	54		32	6.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	14	J	32	6.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	100		32	7.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	81		32	6.3	ug/Kg	1	☼	8270D	Total/NA
Lead	47		2.2	0.88	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP-9

Lab Sample ID: 410-56522-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.1	J	8.2	0.98	ug/Kg	1	☼	8260C	Total/NA
Methyl tertiary butyl ether	23		8.2	0.82	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.2	J	8.2	0.82	ug/Kg	1	☼	8260C	Total/NA
Anthracene	22	J	28	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	54		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	58		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	69		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	62		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	68		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	9.1	J	28	5.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	91		28	6.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	99		28	5.7	ug/Kg	1	☼	8270D	Total/NA
Lead	42		2.0	0.78	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 410-56522-17

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 4847-P5 (3)

Date Collected: 09/23/21 08:50
Date Received: 09/24/21 19:31

Lab Sample ID: 410-56522-1

Matrix: Solid
Percent Solids: 68.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.4	0.67	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
1,2-Dichloroethane	ND		8.4	1.0	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
1,3,5-Trimethylbenzene	ND		8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
Toluene	ND		8.4	1.0	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
Xylenes, Total	ND		17	2.4	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
Methyl tertiary butyl ether	ND		8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
Benzene	ND		8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
Naphthalene	ND		8.4	3.4	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
1,2,4-Trimethylbenzene	ND		8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
Isopropylbenzene	ND		8.4	0.67	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1
1,2-Dibromoethane	ND		8.4	0.67	ug/Kg	☼	09/26/21 09:30	09/29/21 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*09/26/21 09:30*	*09/29/21 18:15*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*09/26/21 09:30*	*09/29/21 18:15*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*09/26/21 09:30*	*09/29/21 18:15*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*09/26/21 09:30*	*09/29/21 18:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Benzo[a]anthracene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Benzo[a]pyrene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Benzo[b]fluoranthene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Benzo[g,h,i]perylene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Chrysene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Fluorene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Phenanthrene	ND		24	5.7	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1
Pyrene	ND		24	4.8	ug/Kg	☼	09/28/21 09:45	09/30/21 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*09/28/21 09:45*	*09/30/21 01:11*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*09/28/21 09:45*	*09/30/21 01:11*	*1*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*09/28/21 09:45*	*09/30/21 01:11*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		1.8	0.71	mg/Kg	☼	09/27/21 08:21	09/27/21 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.4**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 2040-Center (5)

Date Collected: 09/23/21 09:15
Date Received: 09/24/21 19:31

Lab Sample ID: 410-56522-2

Matrix: Solid
Percent Solids: 64.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.4	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
1,2-Dichloroethane	ND		9.4	1.1	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1

Client Sample ID: 2040-Center (5)

Lab Sample ID: 410-56522-2

Date Collected: 09/23/21 09:15
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 64.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		9.4	0.94	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
Toluene	ND		9.4	1.1	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
Xylenes, Total	ND		19	2.6	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
Methyl tertiary butyl ether	ND		9.4	0.94	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
Benzene	ND		9.4	0.94	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
Naphthalene	ND		9.4	3.8	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
1,2,4-Trimethylbenzene	ND		9.4	0.94	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
Isopropylbenzene	ND		9.4	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1
1,2-Dibromoethane	ND		9.4	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*54 - 135*	*09/26/21 09:30*	*09/29/21 18:38*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*09/26/21 09:30*	*09/29/21 18:38*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*09/26/21 09:30*	*09/29/21 18:38*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*09/26/21 09:30*	*09/29/21 18:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Benzo[a]anthracene	**17**	**J**	26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Benzo[a]pyrene	**17**	**J**	26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Benzo[b]fluoranthene	**18**	**J**	26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Benzo[g,h,i]perylene	**8.6**	**J**	26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Chrysene	**35**		26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Fluorene	ND		26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Phenanthrene	**17**	**J**	26	6.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1
Pyrene	**22**	**J**	26	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*09/28/21 09:45*	*09/30/21 01:33*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*09/28/21 09:45*	*09/30/21 01:33*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*09/28/21 09:45*	*09/30/21 01:33*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**24**		2.2	0.86	mg/Kg	☼	09/27/21 08:21	09/27/21 18:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**35.1**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 2045-Center (5)

Lab Sample ID: 410-56522-3

Date Collected: 09/23/21 09:30
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 67.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.2	0.65	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
1,2-Dichloroethane	ND		8.2	0.98	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
1,3,5-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
Toluene	ND		8.2	0.98	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1

Client Sample ID: 2045-Center (5)

Lab Sample ID: 410-56522-3

Date Collected: 09/23/21 09:30
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 67.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		16	2.3	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
Methyl tertiary butyl ether	ND		8.2	0.82	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
Benzene	ND		8.2	0.82	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
Naphthalene	ND		8.2	3.3	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
1,2,4-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
Isopropylbenzene	ND		8.2	0.65	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1
1,2-Dibromoethane	ND		8.2	0.65	ug/Kg	☼	09/26/21 09:30	09/29/21 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*54 - 135*	*09/26/21 09:30*	*09/29/21 15:33*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*	*09/26/21 09:30*	*09/29/21 15:33*	*1*
Dibromofluoromethane (Surr)	*26*	*S1-*	*50 - 141*	*09/26/21 09:30*	*09/29/21 15:33*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*09/26/21 09:30*	*09/29/21 15:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Benzo[a]anthracene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Benzo[a]pyrene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Benzo[b]fluoranthene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Benzo[g,h,i]perylene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Chrysene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Fluorene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Phenanthrene	**7.4**	**J**	25	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1
Pyrene	ND		25	4.9	ug/Kg	☼	09/28/21 09:45	09/30/21 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*39 - 100*	*09/28/21 09:45*	*09/30/21 01:56*	*1*
Nitrobenzene-d5 (Surr)	*72*		*32 - 97*	*09/28/21 09:45*	*09/30/21 01:56*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*09/28/21 09:45*	*09/30/21 01:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**6.7**		1.9	0.74	mg/Kg	☼	09/27/21 08:21	09/30/21 13:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**32.6**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 941-Center (5)

Lab Sample ID: 410-56522-4

Date Collected: 09/23/21 09:50
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 74.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		11	0.90	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
1,2-Dichloroethane	ND		11	1.3	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
1,3,5-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
Toluene	ND		11	1.3	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
Xylenes, Total	ND		22	3.1	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
Methyl tertiary butyl ether	ND		11	1.1	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1

Client Sample ID: 941-Center (5)

Lab Sample ID: 410-56522-4

Date Collected: 09/23/21 09:50
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 74.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		11	1.1	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
Naphthalene	ND		11	4.5	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
1,2,4-Trimethylbenzene	ND		11	1.1	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
Isopropylbenzene	ND		11	0.90	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1
1,2-Dibromoethane	ND		11	0.90	ug/Kg	☼	09/26/21 09:30	09/28/21 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*09/26/21 09:30*	*09/28/21 17:31*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*09/26/21 09:30*	*09/28/21 17:31*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*	*09/26/21 09:30*	*09/28/21 17:31*	*1*
Toluene-d8 (Surr)	*98*		*52 - 141*	*09/26/21 09:30*	*09/28/21 17:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**45000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Benzo[a]anthracene	**49000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Benzo[a]pyrene	**35000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Benzo[b]fluoranthene	**38000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Benzo[g,h,i]perylene	**17000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Chrysene	**41000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Fluorene	**24000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Phenanthrene	**150000**		1100	270	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50
Pyrene	**89000**		1100	220	ug/Kg	☼	09/28/21 09:45	10/01/21 12:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*39 - 100*	*09/28/21 09:45*	*10/01/21 12:55*	*50*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*	*09/28/21 09:45*	*10/01/21 12:55*	*50*
p-Terphenyl-d14 (Surr)	*87*		*45 - 108*	*09/28/21 09:45*	*10/01/21 12:55*	*50*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**560**		1.9	0.75	mg/Kg	☼	09/27/21 08:21	09/27/21 18:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.5**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-Center (5)

Lab Sample ID: 410-56522-5

Date Collected: 09/23/21 10:24
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 60.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.3	0.58	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
1,2-Dichloroethane	ND		7.3	0.87	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
1,3,5-Trimethylbenzene	**2.3**	**J**	7.3	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
Toluene	ND		7.3	0.87	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
Xylenes, Total	ND		15	2.0	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
Methyl tertiary butyl ether	ND		7.3	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
Benzene	ND		7.3	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
Naphthalene	ND		7.3	2.9	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1

Client Sample ID: 7550-Center (5)

Lab Sample ID: 410-56522-5

Date Collected: 09/23/21 10:24
Date Received: 09/24/21 19:31

Matrix: Solid
Percent Solids: 60.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1.8	J	7.3	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
Isopropylbenzene	ND		7.3	0.58	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1
1,2-Dibromoethane	ND		7.3	0.58	ug/Kg	☼	09/26/21 09:30	09/28/21 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*	*09/26/21 09:30*	*09/28/21 17:54*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*09/26/21 09:30*	*09/28/21 17:54*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*09/26/21 09:30*	*09/28/21 17:54*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*09/26/21 09:30*	*09/28/21 17:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	84		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Benzo[a]anthracene	190		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Benzo[a]pyrene	200		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Benzo[b]fluoranthene	240		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Benzo[g,h,i]perylene	160		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Chrysene	230		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Fluorene	54		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Phenanthrene	320		27	6.5	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1
Pyrene	410		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*39 - 100*	*09/28/21 09:45*	*09/30/21 02:41*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*09/28/21 09:45*	*09/30/21 02:41*	*1*
p-Terphenyl-d14 (Surr)	*83*		*45 - 108*	*09/28/21 09:45*	*09/30/21 02:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	88		1.9	0.75	mg/Kg	☼	09/27/21 08:21	09/27/21 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	39.2		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P2 (3)

Lab Sample ID: 410-56522-6

Date Collected: 09/23/21 11:10
Date Received: 09/24/21 19:31

Matrix: Solid
Percent Solids: 71.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.0	0.56	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
1,2-Dichloroethane	ND		7.0	0.84	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
1,3,5-Trimethylbenzene	5.8	J	7.0	0.70	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
Toluene	1.3	J	7.0	0.84	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
Xylenes, Total	4.2	J	14	2.0	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
Methyl tertiary butyl ether	ND		7.0	0.70	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
Benzene	1.1	J	7.0	0.70	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
Naphthalene	ND		7.0	2.8	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
1,2,4-Trimethylbenzene	4.8	J	7.0	0.70	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1
Isopropylbenzene	ND		7.0	0.56	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1

Client Sample ID: 7550-P2 (3)

Lab Sample ID: 410-56522-6

Date Collected: 09/23/21 11:10
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 71.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		7.0	0.56	ug/Kg	☼	09/26/21 09:30	09/28/21 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*	*09/26/21 09:30*	*09/28/21 18:16*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*09/26/21 09:30*	*09/28/21 18:16*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*09/26/21 09:30*	*09/28/21 18:16*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*09/26/21 09:30*	*09/28/21 18:16*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**400**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Benzo[a]anthracene	**1700**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Benzo[a]pyrene	**1600**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Benzo[b]fluoranthene	**2100**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Benzo[g,h,i]perylene	**1100**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Chrysene	**1600**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Fluorene	**130**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Phenanthrene	**1300**		23	5.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1
Pyrene	**2500**		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*39 - 100*	*09/28/21 09:45*	*09/30/21 03:04*	*1*
Nitrobenzene-d5 (Surr)	*63*		*32 - 97*	*09/28/21 09:45*	*09/30/21 03:04*	*1*
p-Terphenyl-d14 (Surr)	*76*		*45 - 108*	*09/28/21 09:45*	*09/30/21 03:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**170**		1.6	0.64	mg/Kg	☼	09/27/21 08:21	09/27/21 18:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.0**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P1 (3)

Lab Sample ID: 410-56522-7

Date Collected: 09/23/21 11:25
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 55.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**5.2**	**J**	9.2	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
1,2-Dichloroethane	ND		9.2	1.1	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
1,3,5-Trimethylbenzene	**230**		9.2	0.92	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
Toluene	**12**		9.2	1.1	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
Xylenes, Total	**99**		18	2.6	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
Methyl tertiary butyl ether	ND		9.2	0.92	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
Benzene	**2.9**	**J**	9.2	0.92	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
Naphthalene	**54**		9.2	3.7	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
1,2,4-Trimethylbenzene	**350**		9.2	0.92	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
Isopropylbenzene	**5.1**	**J**	9.2	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1
1,2-Dibromoethane	**0.89**	**J**	9.2	0.73	ug/Kg	☼	09/26/21 09:30	09/28/21 19:24	1

Client Sample ID: 7550-P1 (3)

Lab Sample ID: 410-56522-7

Date Collected: 09/23/21 11:25
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 55.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		54 - 135	09/26/21 09:30	09/28/21 19:24	1
4-Bromofluorobenzene (Surr)	141	S1+	50 - 131	09/26/21 09:30	09/28/21 19:24	1
Dibromofluoromethane (Surr)	104		50 - 141	09/26/21 09:30	09/28/21 19:24	1
Toluene-d8 (Surr)	105		52 - 141	09/26/21 09:30	09/28/21 19:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	230		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Benzo[a]anthracene	970		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Benzo[a]pyrene	1200		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Benzo[b]fluoranthene	1300		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Benzo[g,h,i]perylene	840		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Chrysene	920		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Fluorene	93		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Phenanthrene	780		30	7.1	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1
Pyrene	1200		30	5.9	ug/Kg	☼	09/28/21 09:45	09/30/21 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	76		39 - 100	09/28/21 09:45	09/30/21 03:27	1
Nitrobenzene-d5 (Surr)	72		32 - 97	09/28/21 09:45	09/30/21 03:27	1
p-Terphenyl-d14 (Surr)	83		45 - 108	09/28/21 09:45	09/30/21 03:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	690		2.4	0.96	mg/Kg	☼	09/27/21 08:21	09/27/21 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	44.3		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P7 (3)

Lab Sample ID: 410-56522-8

Date Collected: 09/23/21 11:40
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 61.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.5	0.60	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
1,2-Dichloroethane	ND		7.5	0.90	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
1,3,5-Trimethylbenzene	4.1	J	7.5	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
Toluene	2.2	J	7.5	0.90	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
Xylenes, Total	3.7	J	15	2.1	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
Methyl tertiary butyl ether	ND		7.5	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
Benzene	1.9	J	7.5	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
Naphthalene	ND		7.5	3.0	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
1,2,4-Trimethylbenzene	3.9	J	7.5	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
Isopropylbenzene	ND		7.5	0.60	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1
1,2-Dibromoethane	ND		7.5	0.60	ug/Kg	☼	09/26/21 09:30	09/29/21 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		54 - 135	09/26/21 09:30	09/29/21 15:57	1
4-Bromofluorobenzene (Surr)	91		50 - 131	09/26/21 09:30	09/29/21 15:57	1
Dibromofluoromethane (Surr)	105		50 - 141	09/26/21 09:30	09/29/21 15:57	1

Client Sample ID: 7550-P7 (3)

Lab Sample ID: 410-56522-8

Date Collected: 09/23/21 11:40
Date Received: 09/24/21 19:31

Matrix: Solid
Percent Solids: 61.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*94*		*52 - 141*	*09/26/21 09:30*	*09/29/21 15:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**32**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Benzo[a]anthracene	**110**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Benzo[a]pyrene	**120**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Benzo[b]fluoranthene	**140**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Benzo[g,h,i]perylene	**98**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Chrysene	**110**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Fluorene	**15**	**J**	27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Phenanthrene	**170**		27	6.5	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1
Pyrene	**190**		27	5.4	ug/Kg	☼	09/28/21 09:45	09/30/21 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*09/28/21 09:45*	*09/30/21 03:49*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*09/28/21 09:45*	*09/30/21 03:49*	*1*
p-Terphenyl-d14 (Surr)	*90*		*45 - 108*	*09/28/21 09:45*	*09/30/21 03:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**85**		2.1	0.82	mg/Kg	☼	09/27/21 08:21	09/27/21 18:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**38.6**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P6 (3)

Lab Sample ID: 410-56522-9

Date Collected: 09/23/21 11:55
Date Received: 09/24/21 19:31

Matrix: Solid
Percent Solids: 63.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	0.77	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
1,2-Dichloroethane	ND		9.6	1.2	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
1,3,5-Trimethylbenzene	**3.8**	**J**	9.6	0.96	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
Toluene	**1.7**	**J**	9.6	1.2	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
Xylenes, Total	ND		19	2.7	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
Methyl tertiary butyl ether	ND		9.6	0.96	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
Benzene	**0.98**	**J**	9.6	0.96	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
Naphthalene	**6.2**	**J**	9.6	3.9	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
1,2,4-Trimethylbenzene	**4.3**	**J**	9.6	0.96	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
Isopropylbenzene	ND		9.6	0.77	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1
1,2-Dibromoethane	ND		9.6	0.77	ug/Kg	☼	09/26/21 09:30	09/29/21 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*111*		*54 - 135*	*09/26/21 09:30*	*09/29/21 16:20*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*	*09/26/21 09:30*	*09/29/21 16:20*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*09/26/21 09:30*	*09/29/21 16:20*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*09/26/21 09:30*	*09/29/21 16:20*	*1*

Client Sample ID: 7550-P6 (3)

Lab Sample ID: 410-56522-9

Date Collected: 09/23/21 11:55
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 63.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	230		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Benzo[a]anthracene	680		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Benzo[a]pyrene	480		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Benzo[b]fluoranthene	680		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Benzo[g,h,i]perylene	300		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Chrysene	650		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Fluorene	54		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Phenanthrene	790		26	6.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1
Pyrene	1500		26	5.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*09/28/21 09:45*	*09/30/21 04:12*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*09/28/21 09:45*	*09/30/21 04:12*	*1*
p-Terphenyl-d14 (Surr)	*84*		*45 - 108*	*09/28/21 09:45*	*09/30/21 04:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	87		2.2	0.90	mg/Kg	☼	09/27/21 08:21	09/27/21 18:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	36.5		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P3 (3)

Lab Sample ID: 410-56522-10

Date Collected: 09/23/21 12:05
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		6.2	0.50	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
1,2-Dichloroethane	ND		6.2	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
1,3,5-Trimethylbenzene	ND		6.2	0.62	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
Toluene	0.77	J	6.2	0.75	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
Xylenes, Total	ND		12	1.7	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
Methyl tertiary butyl ether	ND		6.2	0.62	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
Benzene	0.74	J	6.2	0.62	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
Naphthalene	ND		6.2	2.5	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
1,2,4-Trimethylbenzene	ND		6.2	0.62	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
Isopropylbenzene	ND		6.2	0.50	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1
1,2-Dibromoethane	ND		6.2	0.50	ug/Kg	☼	09/26/21 09:30	09/29/21 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*09/26/21 09:30*	*09/29/21 19:02*	*1*
4-Bromofluorobenzene (Surr)	*89*		*50 - 131*	*09/26/21 09:30*	*09/29/21 19:02*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*09/26/21 09:30*	*09/29/21 19:02*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*09/26/21 09:30*	*09/29/21 19:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	400		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Benzo[a]anthracene	1600		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1

Client Sample ID: 7550-P3 (3)

Lab Sample ID: 410-56522-10

Date Collected: 09/23/21 12:05
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1600		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Benzo[b]fluoranthene	2000		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Benzo[g,h,i]perylene	1100		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Chrysene	1600		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Fluorene	190		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Phenanthrene	1200		21	5.1	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1
Pyrene	2600		21	4.2	ug/Kg	☼	09/28/21 09:45	09/30/21 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*09/28/21 09:45*	*09/30/21 04:35*	*1*
Nitrobenzene-d5 (Surr)	*70*		*32 - 97*	*09/28/21 09:45*	*09/30/21 04:35*	*1*
p-Terphenyl-d14 (Surr)	*85*		*45 - 108*	*09/28/21 09:45*	*09/30/21 04:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	48		1.8	0.72	mg/Kg	☼	09/27/21 08:21	09/27/21 18:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.9		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: UNK-ST-W (3)

Lab Sample ID: 410-56522-11

Date Collected: 09/23/21 12:20
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 60.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.4	0.67	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
1,2-Dichloroethane	ND		8.4	1.0	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
1,3,5-Trimethylbenzene	3.2	J	8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
Toluene	2.1	J	8.4	1.0	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
Xylenes, Total	3.0	J	17	2.3	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
Methyl tertiary butyl ether	ND		8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
Benzene	1.5	J	8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
Naphthalene	ND		8.4	3.4	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
1,2,4-Trimethylbenzene	2.3	J	8.4	0.84	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
Isopropylbenzene	ND		8.4	0.67	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1
1,2-Dibromoethane	ND		8.4	0.67	ug/Kg	☼	09/26/21 09:30	09/29/21 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*09/26/21 09:30*	*09/29/21 19:25*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*	*09/26/21 09:30*	*09/29/21 19:25*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*	*09/26/21 09:30*	*09/29/21 19:25*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*09/26/21 09:30*	*09/29/21 19:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	210		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Benzo[a]anthracene	1000		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Benzo[a]pyrene	770		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Benzo[b]fluoranthene	1100		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1

Client Sample ID: UNK-ST-W (3)

Lab Sample ID: 410-56522-11

Date Collected: 09/23/21 12:20
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 60.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	500		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Chrysene	1100		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Fluorene	54		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Phenanthrene	630		27	6.6	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1
Pyrene	2500		27	5.5	ug/Kg	☼	09/28/21 09:45	09/30/21 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*39 - 100*	*09/28/21 09:45*	*09/30/21 04:58*	*1*
Nitrobenzene-d5 (Surr)	*68*		*32 - 97*	*09/28/21 09:45*	*09/30/21 04:58*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*09/28/21 09:45*	*09/30/21 04:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		2.3	0.93	mg/Kg	☼	09/27/21 08:21	09/27/21 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	39.4		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: UNK-ST-E (3)

Lab Sample ID: 410-56522-12

Date Collected: 09/23/21 12:30
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 71.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.1	J	5.8	0.47	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
1,2-Dichloroethane	ND		5.8	0.70	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
1,3,5-Trimethylbenzene	6.9		5.8	0.58	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
Toluene	5.7	J	5.8	0.70	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
Xylenes, Total	11	J	12	1.6	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
Methyl tertiary butyl ether	ND		5.8	0.58	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
Benzene	4.1	J	5.8	0.58	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
Naphthalene	9.0		5.8	2.3	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
1,2,4-Trimethylbenzene	4.9	J	5.8	0.58	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
Isopropylbenzene	ND		5.8	0.47	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1
1,2-Dibromoethane	ND		5.8	0.47	ug/Kg	☼	09/26/21 09:30	09/29/21 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*54 - 135*	*09/26/21 09:30*	*09/29/21 19:48*	*1*
4-Bromofluorobenzene (Surr)	*88*		*50 - 131*	*09/26/21 09:30*	*09/29/21 19:48*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*09/26/21 09:30*	*09/29/21 19:48*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*09/26/21 09:30*	*09/29/21 19:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	59		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Benzo[a]anthracene	250		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Benzo[a]pyrene	220		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Benzo[b]fluoranthene	310		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Benzo[g,h,i]perylene	180		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Chrysene	250		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1

Client Sample ID: UNK-ST-E (3)

Lab Sample ID: 410-56522-12

Date Collected: 09/23/21 12:30
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 71.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	28		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Phenanthrene	220		23	5.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1
Pyrene	410		23	4.6	ug/Kg	☼	09/28/21 09:45	09/30/21 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*39 - 100*	*09/28/21 09:45*	*09/30/21 05:20*	*1*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*	*09/28/21 09:45*	*09/30/21 05:20*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*09/28/21 09:45*	*09/30/21 05:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	49		1.8	0.73	mg/Kg	☼	09/27/21 08:21	09/27/21 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.6		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P4 (3)

Lab Sample ID: 410-56522-13

Date Collected: 09/23/21 12:40
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		400	32	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
1,2-Dichloroethane	ND		400	48	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
1,3,5-Trimethylbenzene	63	J	400	40	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
Toluene	59	J	400	48	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
Xylenes, Total	180	J	810	110	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
Methyl tertiary butyl ether	ND		400	40	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
Benzene	ND		400	40	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
Naphthalene	260	J	400	160	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
1,2,4-Trimethylbenzene	87	J	400	40	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
Isopropylbenzene	ND		400	32	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50
1,2-Dibromoethane	ND		400	32	ug/Kg	☼	09/26/21 10:09	10/01/21 13:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*54 - 135*	*09/26/21 10:09*	*10/01/21 13:22*	*50*
4-Bromofluorobenzene (Surr)	*97*		*50 - 131*	*09/26/21 10:09*	*10/01/21 13:22*	*50*
Dibromofluoromethane (Surr)	*76*		*50 - 141*	*09/26/21 10:09*	*10/01/21 13:22*	*50*
Toluene-d8 (Surr)	*73*		*52 - 141*	*09/26/21 10:09*	*10/01/21 13:22*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	3400		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Benzo[a]anthracene	8900		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Benzo[a]pyrene	7300		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Benzo[b]fluoranthene	9700		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Benzo[g,h,i]perylene	5000		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Chrysene	8200		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Fluorene	1800		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10
Phenanthrene	15000		210	51	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10

Client Sample ID: 7550-P4 (3)

Lab Sample ID: 410-56522-13

Date Collected: 09/23/21 12:40
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**16000**		210	42	ug/Kg	☼	09/28/21 18:50	09/30/21 00:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*39 - 100*	*09/28/21 18:50*	*09/30/21 00:09*	*10*
Nitrobenzene-d5 (Surr)	*60*		*32 - 97*	*09/28/21 18:50*	*09/30/21 00:09*	*10*
p-Terphenyl-d14 (Surr)	*86*		*45 - 108*	*09/28/21 18:50*	*09/30/21 00:09*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**150**		1.4	0.56	mg/Kg	☼	09/27/21 08:21	09/27/21 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.9**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7550-P5 (3)

Lab Sample ID: 410-56522-14

Date Collected: 09/23/21 12:50
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 63.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.6	0.69	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
1,2-Dichloroethane	ND		8.6	1.0	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
1,3,5-Trimethylbenzene	**16**		8.6	0.86	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
Toluene	**1.7**	**J**	8.6	1.0	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
Xylenes, Total	**18**		17	2.4	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
Methyl tertiary butyl ether	ND		8.6	0.86	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
Benzene	**2.5**	**J**	8.6	0.86	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
Naphthalene	**8.0**	**J**	8.6	3.5	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
1,2,4-Trimethylbenzene	**9.0**		8.6	0.86	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
Isopropylbenzene	ND		8.6	0.69	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1
1,2-Dibromoethane	ND		8.6	0.69	ug/Kg	☼	09/26/21 10:55	09/29/21 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*54 - 135*	*09/26/21 10:55*	*09/29/21 20:10*	*1*
4-Bromofluorobenzene (Surr)	*85*		*50 - 131*	*09/26/21 10:55*	*09/29/21 20:10*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*	*09/26/21 10:55*	*09/29/21 20:10*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*09/26/21 10:55*	*09/29/21 20:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**4600**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Benzo[a]anthracene	**9400**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Benzo[a]pyrene	**9100**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Benzo[b]fluoranthene	**12000**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Benzo[g,h,i]perylene	**6600**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Chrysene	**9900**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Fluorene	**1900**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Phenanthrene	**16000**		260	62	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10
Pyrene	**18000**		260	52	ug/Kg	☼	09/28/21 18:50	09/29/21 18:54	10

Client Sample ID: 7550-P5 (3)

Lab Sample ID: 410-56522-14

Date Collected: 09/23/21 12:50
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 63.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*39 - 100*	*09/28/21 18:50*	*09/29/21 18:54*	*10*
Nitrobenzene-d5 (Surr)	*61*		*32 - 97*	*09/28/21 18:50*	*09/29/21 18:54*	*10*
p-Terphenyl-d14 (Surr)	*79*		*45 - 108*	*09/28/21 18:50*	*09/29/21 18:54*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**120**		2.2	0.87	mg/Kg	☼	09/27/21 08:21	09/27/21 18:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**36.3**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: 7551-Center (5)

Lab Sample ID: 410-56522-15

Date Collected: 09/23/21 13:05
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 51.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.0	0.72	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
1,2-Dichloroethane	ND		9.0	1.1	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
1,3,5-Trimethylbenzene	ND		9.0	0.90	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
Toluene	ND		9.0	1.1	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
Xylenes, Total	ND		18	2.5	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
Methyl tertiary butyl ether	**29**		9.0	0.90	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
Benzene	ND		9.0	0.90	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
Naphthalene	ND		9.0	3.6	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
1,2,4-Trimethylbenzene	ND		9.0	0.90	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
Isopropylbenzene	ND		9.0	0.72	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1
1,2-Dibromoethane	ND		9.0	0.72	ug/Kg	☼	09/26/21 10:55	09/28/21 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*	*09/26/21 10:55*	*09/28/21 18:39*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*09/26/21 10:55*	*09/28/21 18:39*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*09/26/21 10:55*	*09/28/21 18:39*	*1*
Toluene-d8 (Surr)	*93*		*52 - 141*	*09/26/21 10:55*	*09/28/21 18:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**25**	**J**	32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Benzo[a]anthracene	**37**		32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Benzo[a]pyrene	**60**		32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Benzo[b]fluoranthene	**76**		32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Benzo[g,h,i]perylene	**60**		32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Chrysene	**54**		32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Fluorene	**14**	**J**	32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Phenanthrene	**100**		32	7.6	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1
Pyrene	**81**		32	6.3	ug/Kg	☼	09/28/21 18:50	09/29/21 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*39 - 100*	*09/28/21 18:50*	*09/29/21 19:17*	*1*
Nitrobenzene-d5 (Surr)	*67*		*32 - 97*	*09/28/21 18:50*	*09/29/21 19:17*	*1*
p-Terphenyl-d14 (Surr)	*92*		*45 - 108*	*09/28/21 18:50*	*09/29/21 19:17*	*1*

Client Sample ID: 7551-Center (5)

Lab Sample ID: 410-56522-15
Date Collected: 09/23/21 13:05
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 51.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**47**		2.2	0.88	mg/Kg	☼	09/27/21 08:21	09/27/21 18:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**48.1**		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: DUP-9

Lab Sample ID: 410-56522-16
Date Collected: 09/23/21 00:00
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 58.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.2	0.66	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
1,2-Dichloroethane	ND		8.2	0.98	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
1,3,5-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
Toluene	**1.1**	**J**	8.2	0.98	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
Xylenes, Total	ND		16	2.3	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
Methyl tertiary butyl ether	**23**		8.2	0.82	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
Benzene	**1.2**	**J**	8.2	0.82	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
Naphthalene	ND		8.2	3.3	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
1,2,4-Trimethylbenzene	ND		8.2	0.82	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
Isopropylbenzene	ND		8.2	0.66	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1
1,2-Dibromoethane	ND		8.2	0.66	ug/Kg	☼	09/26/21 10:55	09/28/21 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*	*09/26/21 10:55*	*09/28/21 19:02*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*09/26/21 10:55*	*09/28/21 19:02*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*09/26/21 10:55*	*09/28/21 19:02*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*09/26/21 10:55*	*09/28/21 19:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**22**	**J**	28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Benzo[a]anthracene	**54**		28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Benzo[a]pyrene	**58**		28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Benzo[b]fluoranthene	**69**		28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Benzo[g,h,i]perylene	**62**		28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Chrysene	**68**		28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Fluorene	**9.1**	**J**	28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Phenanthrene	**91**		28	6.8	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1
Pyrene	**99**		28	5.7	ug/Kg	☼	09/28/21 18:50	09/30/21 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*	*09/28/21 18:50*	*09/30/21 00:33*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*09/28/21 18:50*	*09/30/21 00:33*	*1*
p-Terphenyl-d14 (Surr)	*113*	*S1+*	*45 - 108*	*09/28/21 18:50*	*09/30/21 00:33*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**42**		2.0	0.78	mg/Kg	☼	09/27/21 08:21	09/27/21 19:04	1

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Client Sample ID: DUP-9

Lab Sample ID: 410-56522-16

Date Collected: 09/23/21 00:00
Matrix: Solid
Date Received: 09/24/21 19:31
Percent Solids: 58.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	41.7		1.0	1.0	%			09/27/21 06:27	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-56522-17

Date Collected: 09/23/21 00:00
Matrix: Water
Date Received: 09/24/21 19:31

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			09/29/21 21:00	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/29/21 21:00	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/29/21 21:00	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			09/29/21 21:00	1
Toluene	ND		1.0	0.30	ug/L			09/29/21 21:00	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/29/21 21:00	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/29/21 21:00	1
Benzene	ND		1.0	0.30	ug/L			09/29/21 21:00	1
Naphthalene	ND		5.0	1.0	ug/L			09/29/21 21:00	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			09/29/21 21:00	1
Isopropylbenzene	ND		5.0	0.30	ug/L			09/29/21 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/29/21 21:00*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/29/21 21:00*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/29/21 21:00*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/29/21 21:00*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-56522-1	4847-P5 (3)	104	87	106	95
410-56522-2	2040-Center (5)	115	89	105	94
410-56522-3	2045-Center (5)	109	90	26 S1-	95
410-56522-4	941-Center (5)	107	89	108	98
410-56522-5	7550-Center (5)	105	94	105	96
410-56522-6	7550-P2 (3)	106	96	103	94
410-56522-7	7550-P1 (3)	102	141 S1+	104	105
410-56522-8	7550-P7 (3)	110	91	105	94
410-56522-9	7550-P6 (3)	111	90	106	94
410-56522-10	7550-P3 (3)	114	89	103	93
410-56522-11	UNK-ST-W (3)	107	90	106	95
410-56522-12	UNK-ST-E (3)	108	88	103	96
410-56522-13	7550-P4 (3)	79	97	76	73
410-56522-14	7550-P5 (3)	105	85	103	96
410-56522-15	7551-Center (5)	107	95	105	93
410-56522-16	DUP-9	103	95	105	95
LCS 410-176078/4	Lab Control Sample	102	100	104	97
LCS 410-176614/4	Lab Control Sample	102	92	103	96
LCS 410-177596/4	Lab Control Sample	99	94	98	93
LCSD 410-176078/5	Lab Control Sample Dup	100	99	102	96
LCSD 410-176614/5	Lab Control Sample Dup	103	92	102	95
LCSD 410-177596/5	Lab Control Sample Dup	100	95	99	94
MB 410-176078/7	Method Blank	104	96	103	94
MB 410-176614/7	Method Blank	106	90	103	95
MB 410-177596/7	Method Blank	101	94	98	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-56522-17	Trip Blank	101	100	96	103
LCS 410-176910/4	Lab Control Sample	102	102	96	102
LCSD 410-176910/5	Lab Control Sample Dup	102	101	95	101
MB 410-176910/6	Method Blank	101	99	95	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Stantec Consulting Corp. Job ID: 410-56522-1
Project/Site: PBF Logistics

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP	NBZ	TPHd14						
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)						
410-56522-1	4847-P5 (3)	81	76	86						
410-56522-2	2040-Center (5)	80	69	83						
410-56522-3	2045-Center (5)	80	72	85						
410-56522-4	941-Center (5)	69	61	87						
410-56522-5	7550-Center (5)	81	74	83						
410-56522-6	7550-P2 (3)	70	63	76						
410-56522-7	7550-P1 (3)	76	72	83						
410-56522-8	7550-P7 (3)	84	76	90						
410-56522-9	7550-P6 (3)	74	67	84						
410-56522-10	7550-P3 (3)	79	70	85						
410-56522-11	UNK-ST-W (3)	79	68	80						
410-56522-12	UNK-ST-E (3)	71	60	80						
410-56522-13	7550-P4 (3)	69	60	86						
410-56522-14	7550-P5 (3)	67	61	79						
410-56522-15	7551-Center (5)	74	67	92						
410-56522-16	DUP-9	87	69	113 S1+						
LCS 410-176060/2-A	Lab Control Sample	89	73	88						
LCS 410-176384/2-A	Lab Control Sample	91	85	100						
MB 410-176060/1-A	Method Blank	73	69	82						
MB 410-176384/1-A	Method Blank	90	86	104						

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-176078/7
Matrix: Solid
Analysis Batch: 176078

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/28/21 11:30	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/28/21 11:30	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/28/21 11:30	1
Toluene	ND		5.0	0.60	ug/Kg			09/28/21 11:30	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/28/21 11:30	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			09/28/21 11:30	1
Benzene	ND		5.0	0.50	ug/Kg			09/28/21 11:30	1
Naphthalene	ND		5.0	2.0	ug/Kg			09/28/21 11:30	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/28/21 11:30	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			09/28/21 11:30	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/28/21 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*		*09/28/21 11:30*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*		*09/28/21 11:30*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*		*09/28/21 11:30*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*		*09/28/21 11:30*	*1*

Lab Sample ID: LCS 410-176078/4
Matrix: Solid
Analysis Batch: 176078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	19.2		ug/Kg		96	78 - 120
1,2-Dichloroethane	20.0	20.9		ug/Kg		104	71 - 128
1,3,5-Trimethylbenzene	20.0	18.6		ug/Kg		93	73 - 120
Toluene	20.0	18.0		ug/Kg		90	80 - 120
Xylenes, Total	60.0	57.4		ug/Kg		96	75 - 120
Methyl tertiary butyl ether	20.0	18.4		ug/Kg		92	72 - 120
Benzene	20.0	18.7		ug/Kg		93	80 - 120
Naphthalene	20.0	17.4		ug/Kg		87	48 - 130
1,2,4-Trimethylbenzene	20.0	18.6		ug/Kg		93	73 - 120
Isopropylbenzene	20.0	19.7		ug/Kg		98	77 - 120
1,2-Dibromoethane	20.0	19.0		ug/Kg		95	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*100*		*50 - 131*
Dibromofluoromethane (Surr)	*104*		*50 - 141*
Toluene-d8 (Surr)	*97*		*52 - 141*

Lab Sample ID: LCSD 410-176078/5
Matrix: Solid
Analysis Batch: 176078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	19.3		ug/Kg		96	78 - 120	1	30
1,2-Dichloroethane	20.0	19.9		ug/Kg		99	71 - 128	5	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-176078/5
Matrix: Solid
Analysis Batch: 176078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	18.6		ug/Kg		93	73 - 120	0	30
Toluene			20.0	18.0		ug/Kg		90	80 - 120	0	30
Xylenes, Total			60.0	56.9		ug/Kg		95	75 - 120	1	30
Methyl tertiary butyl ether			20.0	17.7		ug/Kg		89	72 - 120	4	30
Benzene			20.0	18.5		ug/Kg		92	80 - 120	1	30
Naphthalene			20.0	16.3		ug/Kg		82	48 - 130	7	30
1,2,4-Trimethylbenzene			20.0	18.6		ug/Kg		93	73 - 120	0	30
Isopropylbenzene			20.0	19.7		ug/Kg		98	77 - 120	0	30
1,2-Dibromoethane			20.0	18.5		ug/Kg		92	76 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*99*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*96*		*52 - 141*

Lab Sample ID: MB 410-176614/7
Matrix: Solid
Analysis Batch: 176614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			09/29/21 11:44	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			09/29/21 11:44	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/29/21 11:44	1
Toluene	ND		5.0	0.60	ug/Kg			09/29/21 11:44	1
Xylenes, Total	ND		10	1.4	ug/Kg			09/29/21 11:44	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			09/29/21 11:44	1
Benzene	ND		5.0	0.50	ug/Kg			09/29/21 11:44	1
Naphthalene	ND		5.0	2.0	ug/Kg			09/29/21 11:44	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			09/29/21 11:44	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			09/29/21 11:44	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			09/29/21 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*		*09/29/21 11:44*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*		*09/29/21 11:44*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 141*		*09/29/21 11:44*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*		*09/29/21 11:44*	*1*

Lab Sample ID: LCS 410-176614/4
Matrix: Solid
Analysis Batch: 176614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			20.0	18.2		ug/Kg		91	78 - 120
1,2-Dichloroethane			20.0	19.9		ug/Kg		100	71 - 128
1,3,5-Trimethylbenzene			20.0	17.4		ug/Kg		87	73 - 120
Toluene			20.0	17.9		ug/Kg		90	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-176614/4
Matrix: Solid
Analysis Batch: 176614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			60.0	56.4		ug/Kg		94	75 - 120		
Methyl tertiary butyl ether			20.0	18.5		ug/Kg		92	72 - 120		
Benzene			20.0	18.7		ug/Kg		94	80 - 120		
Naphthalene			20.0	17.1		ug/Kg		86	48 - 130		
1,2,4-Trimethylbenzene			20.0	17.9		ug/Kg		89	73 - 120		
Isopropylbenzene			20.0	18.5		ug/Kg		93	77 - 120		
1,2-Dibromoethane			20.0	19.5		ug/Kg		98	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*
Dibromofluoromethane (Surr)	*103*		*50 - 141*
Toluene-d8 (Surr)	*96*		*52 - 141*

Lab Sample ID: LCSD 410-176614/5
Matrix: Solid
Analysis Batch: 176614

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.0		ug/Kg		90	78 - 120	1	30
1,2-Dichloroethane			20.0	20.5		ug/Kg		102	71 - 128	3	30
1,3,5-Trimethylbenzene			20.0	17.5		ug/Kg		87	73 - 120	0	30
Toluene			20.0	18.0		ug/Kg		90	80 - 120	1	30
Xylenes, Total			60.0	56.1		ug/Kg		94	75 - 120	1	30
Methyl tertiary butyl ether			20.0	18.6		ug/Kg		93	72 - 120	1	30
Benzene			20.0	18.9		ug/Kg		94	80 - 120	1	30
Naphthalene			20.0	17.1		ug/Kg		85	48 - 130	0	30
1,2,4-Trimethylbenzene			20.0	17.8		ug/Kg		89	73 - 120	1	30
Isopropylbenzene			20.0	18.5		ug/Kg		92	77 - 120	0	30
1,2-Dibromoethane			20.0	19.8		ug/Kg		99	76 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*
Dibromofluoromethane (Surr)	*102*		*50 - 141*
Toluene-d8 (Surr)	*95*		*52 - 141*

Lab Sample ID: MB 410-177596/7
Matrix: Solid
Analysis Batch: 177596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250	20	ug/Kg			10/01/21 11:51	50
1,2-Dichloroethane	ND		250	30	ug/Kg			10/01/21 11:51	50
1,3,5-Trimethylbenzene	ND		250	25	ug/Kg			10/01/21 11:51	50
Toluene	ND		250	30	ug/Kg			10/01/21 11:51	50
Xylenes, Total	ND		500	70	ug/Kg			10/01/21 11:51	50
Methyl tertiary butyl ether	ND		250	25	ug/Kg			10/01/21 11:51	50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-177596/7
Matrix: Solid
Analysis Batch: 177596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		250	25	ug/Kg			10/01/21 11:51	50
Naphthalene	ND		250	100	ug/Kg			10/01/21 11:51	50
1,2,4-Trimethylbenzene	ND		250	25	ug/Kg			10/01/21 11:51	50
Isopropylbenzene	ND		250	20	ug/Kg			10/01/21 11:51	50
1,2-Dibromoethane	ND		250	20	ug/Kg			10/01/21 11:51	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*		*10/01/21 11:51*	*50*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*		*10/01/21 11:51*	*50*
Dibromofluoromethane (Surr)	*98*		*50 - 141*		*10/01/21 11:51*	*50*
Toluene-d8 (Surr)	*94*		*52 - 141*		*10/01/21 11:51*	*50*

Lab Sample ID: LCS 410-177596/4
Matrix: Solid
Analysis Batch: 177596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			1000	984		ug/Kg		98	78 - 120		
1,2-Dichloroethane			1000	1050		ug/Kg		105	71 - 128		
1,3,5-Trimethylbenzene			1000	967		ug/Kg		97	73 - 120		
Toluene			1000	984		ug/Kg		98	80 - 120		
Xylenes, Total			3000	2950		ug/Kg		98	75 - 120		
Methyl tertiary butyl ether			1000	1010		ug/Kg		101	72 - 120		
Benzene			1000	1040		ug/Kg		104	80 - 120		
Naphthalene			1000	951		ug/Kg		95	48 - 130		
1,2,4-Trimethylbenzene			1000	973		ug/Kg		97	73 - 120		
Isopropylbenzene			1000	1020		ug/Kg		102	77 - 120		
1,2-Dibromoethane			1000	1000		ug/Kg		100	76 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*98*		*50 - 141*
Toluene-d8 (Surr)	*93*		*52 - 141*

Lab Sample ID: LCSD 410-177596/5
Matrix: Solid
Analysis Batch: 177596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			1000	993		ug/Kg		99	78 - 120	1	30
1,2-Dichloroethane			1000	1070		ug/Kg		107	71 - 128	2	30
1,3,5-Trimethylbenzene			1000	980		ug/Kg		98	73 - 120	1	30
Toluene			1000	996		ug/Kg		100	80 - 120	1	30
Xylenes, Total			3000	2990		ug/Kg		100	75 - 120	2	30
Methyl tertiary butyl ether			1000	1030		ug/Kg		103	72 - 120	1	30
Benzene			1000	1050		ug/Kg		105	80 - 120	1	30
Naphthalene			1000	1010		ug/Kg		101	48 - 130	6	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-177596/5
Matrix: Solid
Analysis Batch: 177596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			1000	983		ug/Kg		98	73 - 120	1	30
Isopropylbenzene			1000	1030		ug/Kg		103	77 - 120	1	30
1,2-Dibromoethane			1000	1000		ug/Kg		100	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*
Dibromofluoromethane (Surr)	*99*		*50 - 141*
Toluene-d8 (Surr)	*94*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-176910/6
Matrix: Water
Analysis Batch: 176910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			09/29/21 20:08	1
Ethylbenzene	ND		1.0	0.40	ug/L			09/29/21 20:08	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			09/29/21 20:08	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			09/29/21 20:08	1
Toluene	ND		1.0	0.30	ug/L			09/29/21 20:08	1
Xylenes, Total	ND		6.0	1.4	ug/L			09/29/21 20:08	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			09/29/21 20:08	1
Benzene	ND		1.0	0.30	ug/L			09/29/21 20:08	1
Naphthalene	ND		5.0	1.0	ug/L			09/29/21 20:08	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			09/29/21 20:08	1
Isopropylbenzene	ND		5.0	0.30	ug/L			09/29/21 20:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/29/21 20:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/29/21 20:08*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*09/29/21 20:08*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/29/21 20:08*	*1*

Lab Sample ID: LCS 410-176910/4
Matrix: Water
Analysis Batch: 176910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	20.1		ug/L		101	77 - 120		
Ethylbenzene			20.0	23.8		ug/L		119	80 - 120		
1,2-Dichloroethane			20.0	20.1		ug/L		101	73 - 124		
1,3,5-Trimethylbenzene			20.0	23.3		ug/L		117	75 - 120		
Toluene			20.0	21.1		ug/L		106	80 - 120		
Xylenes, Total			60.0	62.6		ug/L		104	80 - 120		
Methyl tertiary butyl ether			20.0	20.5		ug/L		102	69 - 122		
Benzene			20.0	21.9		ug/L		109	80 - 120		

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-176910/4
Matrix: Water
Analysis Batch: 176910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			20.0	21.6		ug/L		108	53 - 124		
1,2,4-Trimethylbenzene			20.0	23.3		ug/L		116	75 - 120		
Isopropylbenzene			20.0	20.5		ug/L		103	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 410-176910/5
Matrix: Water
Analysis Batch: 176910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	19.7		ug/L		98	77 - 120	2	30
Ethylbenzene			20.0	22.5		ug/L		112	80 - 120	6	30
1,2-Dichloroethane			20.0	19.9		ug/L		100	73 - 124	1	30
1,3,5-Trimethylbenzene			20.0	21.8		ug/L		109	75 - 120	7	30
Toluene			20.0	19.9		ug/L		100	80 - 120	6	30
Xylenes, Total			60.0	59.6		ug/L		99	80 - 120	5	30
Methyl tertiary butyl ether			20.0	20.4		ug/L		102	69 - 122	0	30
Benzene			20.0	20.7		ug/L		104	80 - 120	5	30
Naphthalene			20.0	20.8		ug/L		104	53 - 124	4	30
1,2,4-Trimethylbenzene			20.0	22.0		ug/L		110	75 - 120	6	30
Isopropylbenzene			20.0	19.3		ug/L		97	80 - 120	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-176060/1-A
Matrix: Solid
Analysis Batch: 176968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Chrysene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Fluorene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1
Phenanthrene	ND		17	4.0	ug/Kg		09/28/21 09:45	09/29/21 22:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-176060/1-A
Matrix: Solid
Analysis Batch: 176968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		17	3.3	ug/Kg		09/28/21 09:45	09/29/21 22:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*39 - 100*	*09/28/21 09:45*	*09/29/21 22:54*	*1*
Nitrobenzene-d5 (Surr)	*69*		*32 - 97*	*09/28/21 09:45*	*09/29/21 22:54*	*1*
p-Terphenyl-d14 (Surr)	*82*		*45 - 108*	*09/28/21 09:45*	*09/29/21 22:54*	*1*

Lab Sample ID: LCS 410-176060/2-A
Matrix: Solid
Analysis Batch: 176968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1670	1390		ug/Kg		84	75 - 120
Benzo[a]anthracene	1670	1490		ug/Kg		89	73 - 120
Benzo[a]pyrene	1670	1460		ug/Kg		88	80 - 123
Benzo[b]fluoranthene	1670	1470		ug/Kg		88	63 - 120
Benzo[g,h,i]perylene	1670	1330		ug/Kg		80	77 - 120
Chrysene	1670	1480		ug/Kg		89	66 - 120
Fluorene	1670	1420		ug/Kg		85	68 - 120
Phenanthrene	1670	1360		ug/Kg		81	74 - 120
Pyrene	1670	1450		ug/Kg		87	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*
Nitrobenzene-d5 (Surr)	*73*		*32 - 97*
p-Terphenyl-d14 (Surr)	*88*		*45 - 108*

Lab Sample ID: MB 410-176384/1-A
Matrix: Solid
Analysis Batch: 176610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Chrysene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Fluorene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Phenanthrene	ND		17	4.0	ug/Kg		09/28/21 18:50	09/29/21 13:45	1
Pyrene	ND		17	3.3	ug/Kg		09/28/21 18:50	09/29/21 13:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*39 - 100*	*09/28/21 18:50*	*09/29/21 13:45*	*1*
Nitrobenzene-d5 (Surr)	*86*		*32 - 97*	*09/28/21 18:50*	*09/29/21 13:45*	*1*
p-Terphenyl-d14 (Surr)	*104*		*45 - 108*	*09/28/21 18:50*	*09/29/21 13:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-176384/2-A
Matrix: Solid
Analysis Batch: 176610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176384

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Anthracene			1670	1620		ug/Kg		97	75 - 120		
Benzo[a]anthracene			1670	1640		ug/Kg		98	73 - 120		
Benzo[a]pyrene			1670	1700		ug/Kg		102	80 - 123		
Benzo[b]fluoranthene			1670	1560		ug/Kg		94	63 - 120		
Benzo[g,h,i]perylene			1670	1760		ug/Kg		106	77 - 120		
Chrysene			1670	1450		ug/Kg		87	66 - 120		
Fluorene			1670	1520		ug/Kg		91	68 - 120		
Phenanthrene			1670	1530		ug/Kg		92	74 - 120		
Pyrene			1670	1470		ug/Kg		88	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*91*		*39 - 100*
Nitrobenzene-d5 (Surr)	*85*		*32 - 97*
p-Terphenyl-d14 (Surr)	*100*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-175606/1-A
Matrix: Solid
Analysis Batch: 175938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 175606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		09/27/21 08:21	09/27/21 17:48	1

Lab Sample ID: LCS 410-175606/2-A
Matrix: Solid
Analysis Batch: 175938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 175606

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			5.00	5.44		mg/Kg		109	80 - 120		

Lab Sample ID: 410-56522-7 MS
Matrix: Solid
Analysis Batch: 175938

Client Sample ID: 7550-P1 (3)
Prep Type: Total/NA
Prep Batch: 175606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	690		8.31	490	4	mg/Kg	☼	-2444	75 - 125		

Lab Sample ID: 410-56522-7 MSD
Matrix: Solid
Analysis Batch: 175938

Client Sample ID: 7550-P1 (3)
Prep Type: Total/NA
Prep Batch: 175606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	690		6.91	435	4	mg/Kg	☼	-3727	75 - 125	12	20

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-56522-7 DU
Matrix: Solid
Analysis Batch: 175938

Client Sample ID: 7550-P1 (3)
Prep Type: Total/NA
Prep Batch: 175606

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	690			690		mg/Kg	☼			0.4	20

GC/MS VOA

Prep Batch: 175442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-13	7550-P4 (3)	Total/NA	Solid	5035	

Prep Batch: 175443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	5035	
410-56522-2	2040-Center (5)	Total/NA	Solid	5035	
410-56522-3 - RA	2045-Center (5)	Total/NA	Solid	5035	
410-56522-3	2045-Center (5)	Total/NA	Solid	5035	
410-56522-4	941-Center (5)	Total/NA	Solid	5035	
410-56522-5	7550-Center (5)	Total/NA	Solid	5035	
410-56522-6	7550-P2 (3)	Total/NA	Solid	5035	
410-56522-7	7550-P1 (3)	Total/NA	Solid	5035	
410-56522-8	7550-P7 (3)	Total/NA	Solid	5035	
410-56522-9	7550-P6 (3)	Total/NA	Solid	5035	
410-56522-10	7550-P3 (3)	Total/NA	Solid	5035	
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	5035	
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	5035	
410-56522-14	7550-P5 (3)	Total/NA	Solid	5035	
410-56522-15	7551-Center (5)	Total/NA	Solid	5035	
410-56522-16	DUP-9	Total/NA	Solid	5035	

Analysis Batch: 176078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-4	941-Center (5)	Total/NA	Solid	8260C	175443
410-56522-5	7550-Center (5)	Total/NA	Solid	8260C	175443
410-56522-6	7550-P2 (3)	Total/NA	Solid	8260C	175443
410-56522-7	7550-P1 (3)	Total/NA	Solid	8260C	175443
410-56522-15	7551-Center (5)	Total/NA	Solid	8260C	175443
410-56522-16	DUP-9	Total/NA	Solid	8260C	175443
MB 410-176078/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-176078/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-176078/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 176614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	8260C	175443
410-56522-2	2040-Center (5)	Total/NA	Solid	8260C	175443
410-56522-3	2045-Center (5)	Total/NA	Solid	8260C	175443
410-56522-8	7550-P7 (3)	Total/NA	Solid	8260C	175443
410-56522-9	7550-P6 (3)	Total/NA	Solid	8260C	175443
410-56522-10	7550-P3 (3)	Total/NA	Solid	8260C	175443
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	8260C	175443
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	8260C	175443
410-56522-14	7550-P5 (3)	Total/NA	Solid	8260C	175443
MB 410-176614/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-176614/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-176614/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 176910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-17	Trip Blank	Total/NA	Water	8260C/UST	

GC/MS VOA (Continued)

Analysis Batch: 176910 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-176910/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-176910/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-176910/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Analysis Batch: 177141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-3 - RA	2045-Center (5)	Total/NA	Solid	8260C	175443
MB 410-177141/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-177141/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-177141/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 177596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-13	7550-P4 (3)	Total/NA	Solid	8260C	175442
MB 410-177596/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-177596/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-177596/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 176060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	3546	
410-56522-2	2040-Center (5)	Total/NA	Solid	3546	
410-56522-3	2045-Center (5)	Total/NA	Solid	3546	
410-56522-4	941-Center (5)	Total/NA	Solid	3546	
410-56522-5	7550-Center (5)	Total/NA	Solid	3546	
410-56522-6	7550-P2 (3)	Total/NA	Solid	3546	
410-56522-7	7550-P1 (3)	Total/NA	Solid	3546	
410-56522-8	7550-P7 (3)	Total/NA	Solid	3546	
410-56522-9	7550-P6 (3)	Total/NA	Solid	3546	
410-56522-10	7550-P3 (3)	Total/NA	Solid	3546	
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	3546	
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	3546	
MB 410-176060/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-176060/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 176384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-13	7550-P4 (3)	Total/NA	Solid	3546	
410-56522-14	7550-P5 (3)	Total/NA	Solid	3546	
410-56522-15	7551-Center (5)	Total/NA	Solid	3546	
410-56522-16	DUP-9	Total/NA	Solid	3546	
MB 410-176384/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-176384/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 176610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-176384/1-A	Method Blank	Total/NA	Solid	8270D	176384
LCS 410-176384/2-A	Lab Control Sample	Total/NA	Solid	8270D	176384

GC/MS Semi VOA

Analysis Batch: 176621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-14	7550-P5 (3)	Total/NA	Solid	8270D	176384
410-56522-15	7551-Center (5)	Total/NA	Solid	8270D	176384

Analysis Batch: 176968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	8270D	176060
410-56522-2	2040-Center (5)	Total/NA	Solid	8270D	176060
410-56522-3	2045-Center (5)	Total/NA	Solid	8270D	176060
410-56522-5	7550-Center (5)	Total/NA	Solid	8270D	176060
410-56522-6	7550-P2 (3)	Total/NA	Solid	8270D	176060
410-56522-7	7550-P1 (3)	Total/NA	Solid	8270D	176060
410-56522-8	7550-P7 (3)	Total/NA	Solid	8270D	176060
410-56522-9	7550-P6 (3)	Total/NA	Solid	8270D	176060
410-56522-10	7550-P3 (3)	Total/NA	Solid	8270D	176060
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	8270D	176060
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	8270D	176060
MB 410-176060/1-A	Method Blank	Total/NA	Solid	8270D	176060
LCS 410-176060/2-A	Lab Control Sample	Total/NA	Solid	8270D	176060

Analysis Batch: 176974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-13	7550-P4 (3)	Total/NA	Solid	8270D	176384
410-56522-16	DUP-9	Total/NA	Solid	8270D	176384

Analysis Batch: 177593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-4	941-Center (5)	Total/NA	Solid	8270D	176060

Metals

Prep Batch: 175606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	3050B	
410-56522-2	2040-Center (5)	Total/NA	Solid	3050B	
410-56522-3	2045-Center (5)	Total/NA	Solid	3050B	
410-56522-4	941-Center (5)	Total/NA	Solid	3050B	
410-56522-5	7550-Center (5)	Total/NA	Solid	3050B	
410-56522-6	7550-P2 (3)	Total/NA	Solid	3050B	
410-56522-7	7550-P1 (3)	Total/NA	Solid	3050B	
410-56522-8	7550-P7 (3)	Total/NA	Solid	3050B	
410-56522-9	7550-P6 (3)	Total/NA	Solid	3050B	
410-56522-10	7550-P3 (3)	Total/NA	Solid	3050B	
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	3050B	
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	3050B	
410-56522-13	7550-P4 (3)	Total/NA	Solid	3050B	
410-56522-14	7550-P5 (3)	Total/NA	Solid	3050B	
410-56522-15	7551-Center (5)	Total/NA	Solid	3050B	
410-56522-16	DUP-9	Total/NA	Solid	3050B	
MB 410-175606/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-175606/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-56522-7 MS	7550-P1 (3)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 175606 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-7 MSD	7550-P1 (3)	Total/NA	Solid	3050B	
410-56522-7 DU	7550-P1 (3)	Total/NA	Solid	3050B	

Analysis Batch: 175938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	6010C	175606
410-56522-2	2040-Center (5)	Total/NA	Solid	6010C	175606
410-56522-4	941-Center (5)	Total/NA	Solid	6010C	175606
410-56522-5	7550-Center (5)	Total/NA	Solid	6010C	175606
410-56522-6	7550-P2 (3)	Total/NA	Solid	6010C	175606
410-56522-7	7550-P1 (3)	Total/NA	Solid	6010C	175606
410-56522-8	7550-P7 (3)	Total/NA	Solid	6010C	175606
410-56522-9	7550-P6 (3)	Total/NA	Solid	6010C	175606
410-56522-10	7550-P3 (3)	Total/NA	Solid	6010C	175606
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	6010C	175606
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	6010C	175606
410-56522-13	7550-P4 (3)	Total/NA	Solid	6010C	175606
410-56522-14	7550-P5 (3)	Total/NA	Solid	6010C	175606
410-56522-15	7551-Center (5)	Total/NA	Solid	6010C	175606
410-56522-16	DUP-9	Total/NA	Solid	6010C	175606
MB 410-175606/1-A	Method Blank	Total/NA	Solid	6010C	175606
LCS 410-175606/2-A	Lab Control Sample	Total/NA	Solid	6010C	175606
410-56522-7 MS	7550-P1 (3)	Total/NA	Solid	6010C	175606
410-56522-7 MSD	7550-P1 (3)	Total/NA	Solid	6010C	175606
410-56522-7 DU	7550-P1 (3)	Total/NA	Solid	6010C	175606

Analysis Batch: 177354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-3	2045-Center (5)	Total/NA	Solid	6010C	175606

General Chemistry

Analysis Batch: 175542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56522-1	4847-P5 (3)	Total/NA	Solid	Moisture	
410-56522-2	2040-Center (5)	Total/NA	Solid	Moisture	
410-56522-3	2045-Center (5)	Total/NA	Solid	Moisture	
410-56522-4	941-Center (5)	Total/NA	Solid	Moisture	
410-56522-5	7550-Center (5)	Total/NA	Solid	Moisture	
410-56522-6	7550-P2 (3)	Total/NA	Solid	Moisture	
410-56522-7	7550-P1 (3)	Total/NA	Solid	Moisture	
410-56522-8	7550-P7 (3)	Total/NA	Solid	Moisture	
410-56522-9	7550-P6 (3)	Total/NA	Solid	Moisture	
410-56522-10	7550-P3 (3)	Total/NA	Solid	Moisture	
410-56522-11	UNK-ST-W (3)	Total/NA	Solid	Moisture	
410-56522-12	UNK-ST-E (3)	Total/NA	Solid	Moisture	
410-56522-13	7550-P4 (3)	Total/NA	Solid	Moisture	
410-56522-14	7550-P5 (3)	Total/NA	Solid	Moisture	
410-56522-15	7551-Center (5)	Total/NA	Solid	Moisture	
410-56522-16	DUP-9	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Client Sample ID: 4847-P5 (3)

Lab Sample ID: 410-56522-1

Date Collected: 09/23/21 08:50

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 4847-P5 (3)

Lab Sample ID: 410-56522-1

Date Collected: 09/23/21 08:50

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 68.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 18:15	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 01:11	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:15	XQY5	ELLE

Client Sample ID: 2040-Center (5)

Lab Sample ID: 410-56522-2

Date Collected: 09/23/21 09:15

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 2040-Center (5)

Lab Sample ID: 410-56522-2

Date Collected: 09/23/21 09:15

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 64.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 18:38	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 01:33	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:18	XQY5	ELLE

Client Sample ID: 2045-Center (5)

Lab Sample ID: 410-56522-3

Date Collected: 09/23/21 09:30

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 2045-Center (5)

Lab Sample ID: 410-56522-3

Date Collected: 09/23/21 09:30

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 67.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 15:33	USEJ	ELLE
Total/NA	Prep	5035	RA		175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	177141	09/30/21 17:05	ULCP	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 01:56	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	177354	09/30/21 13:17	WJM9	ELLE

Client Sample ID: 941-Center (5)

Lab Sample ID: 410-56522-4

Date Collected: 09/23/21 09:50

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 941-Center (5)

Lab Sample ID: 410-56522-4

Date Collected: 09/23/21 09:50

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176078	09/28/21 17:31	ULCP	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		50	177593	10/01/21 12:55	ULM3	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:23	XQY5	ELLE

Client Sample ID: 7550-Center (5)

Lab Sample ID: 410-56522-5

Date Collected: 09/23/21 10:24

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-Center (5)

Lab Sample ID: 410-56522-5

Date Collected: 09/23/21 10:24

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 60.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176078	09/28/21 17:54	ULCP	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 02:41	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:31	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Client Sample ID: 7550-P2 (3)

Lab Sample ID: 410-56522-6

Date Collected: 09/23/21 11:10

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P2 (3)

Lab Sample ID: 410-56522-6

Date Collected: 09/23/21 11:10

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 71.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176078	09/28/21 18:16	ULCP	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 03:04	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:34	XQY5	ELLE

Client Sample ID: 7550-P1 (3)

Lab Sample ID: 410-56522-7

Date Collected: 09/23/21 11:25

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P1 (3)

Lab Sample ID: 410-56522-7

Date Collected: 09/23/21 11:25

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 55.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176078	09/28/21 19:24	ULCP	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 03:27	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 17:58	XQY5	ELLE

Client Sample ID: 7550-P7 (3)

Lab Sample ID: 410-56522-8

Date Collected: 09/23/21 11:40

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P7 (3)

Lab Sample ID: 410-56522-8

Date Collected: 09/23/21 11:40

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 61.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 15:57	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 03:49	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:37	XQY5	ELLE

Client Sample ID: 7550-P6 (3)

Lab Sample ID: 410-56522-9

Date Collected: 09/23/21 11:55

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P6 (3)

Lab Sample ID: 410-56522-9

Date Collected: 09/23/21 11:55

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 63.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 16:20	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 04:12	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:39	XQY5	ELLE

Client Sample ID: 7550-P3 (3)

Lab Sample ID: 410-56522-10

Date Collected: 09/23/21 12:05

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P3 (3)

Lab Sample ID: 410-56522-10

Date Collected: 09/23/21 12:05

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 19:02	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 04:35	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:42	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Client Sample ID: UNK-ST-W (3)

Lab Sample ID: 410-56522-11

Date Collected: 09/23/21 12:20
Date Received: 09/24/21 19:31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: UNK-ST-W (3)

Lab Sample ID: 410-56522-11

Date Collected: 09/23/21 12:20
Date Received: 09/24/21 19:31

Matrix: Solid
Percent Solids: 60.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 19:25	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 04:58	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:45	XQY5	ELLE

Client Sample ID: UNK-ST-E (3)

Lab Sample ID: 410-56522-12

Date Collected: 09/23/21 12:30
Date Received: 09/24/21 19:31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: UNK-ST-E (3)

Lab Sample ID: 410-56522-12

Date Collected: 09/23/21 12:30
Date Received: 09/24/21 19:31

Matrix: Solid
Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 09:30	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 19:48	USEJ	ELLE
Total/NA	Prep	3546			176060	09/28/21 09:45	R9CT	ELLE
Total/NA	Analysis	8270D		1	176968	09/30/21 05:20	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:48	XQY5	ELLE

Client Sample ID: 7550-P4 (3)

Lab Sample ID: 410-56522-13

Date Collected: 09/23/21 12:40
Date Received: 09/24/21 19:31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P4 (3)

Lab Sample ID: 410-56522-13

Date Collected: 09/23/21 12:40

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175442	09/26/21 10:09	JJT8	ELLE
Total/NA	Analysis	8260C		50	177596	10/01/21 13:22	USEJ	ELLE
Total/NA	Prep	3546			176384	09/28/21 18:50	QQ3P	ELLE
Total/NA	Analysis	8270D		10	176974	09/30/21 00:09	SJ89	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:51	XQY5	ELLE

Client Sample ID: 7550-P5 (3)

Lab Sample ID: 410-56522-14

Date Collected: 09/23/21 12:50

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7550-P5 (3)

Lab Sample ID: 410-56522-14

Date Collected: 09/23/21 12:50

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 63.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 10:55	JJT8	ELLE
Total/NA	Analysis	8260C		1	176614	09/29/21 20:10	USEJ	ELLE
Total/NA	Prep	3546			176384	09/28/21 18:50	QQ3P	ELLE
Total/NA	Analysis	8270D		10	176621	09/29/21 18:54	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:54	XQY5	ELLE

Client Sample ID: 7551-Center (5)

Lab Sample ID: 410-56522-15

Date Collected: 09/23/21 13:05

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: 7551-Center (5)

Lab Sample ID: 410-56522-15

Date Collected: 09/23/21 13:05

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 51.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 10:55	JJT8	ELLE
Total/NA	Analysis	8260C		1	176078	09/28/21 18:39	ULCP	ELLE
Total/NA	Prep	3546			176384	09/28/21 18:50	QQ3P	ELLE
Total/NA	Analysis	8270D		1	176621	09/29/21 19:17	UWHS	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 18:56	XQY5	ELLE

Client Sample ID: DUP-9

Lab Sample ID: 410-56522-16

Date Collected: 09/23/21 00:00

Matrix: Solid

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	175542	09/27/21 06:27	UWC1	ELLE

Client Sample ID: DUP-9

Lab Sample ID: 410-56522-16

Date Collected: 09/23/21 00:00

Matrix: Solid

Date Received: 09/24/21 19:31

Percent Solids: 58.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175443	09/26/21 10:55	JJT8	ELLE
Total/NA	Analysis	8260C		1	176078	09/28/21 19:02	ULCP	ELLE
Total/NA	Prep	3546			176384	09/28/21 18:50	QQ3P	ELLE
Total/NA	Analysis	8270D		1	176974	09/30/21 00:33	SJ89	ELLE
Total/NA	Prep	3050B			175606	09/27/21 08:21	UAMX	ELLE
Total/NA	Analysis	6010C		1	175938	09/27/21 19:04	XQY5	ELLE

Client Sample ID: Trip Blank

Lab Sample ID: 410-56522-17

Date Collected: 09/23/21 00:00

Matrix: Water

Date Received: 09/24/21 19:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	176910	09/29/21 21:00	LCW8	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-56522-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-56522-1	4847-P5 (3)	Solid	09/23/21 08:50	09/24/21 19:31
410-56522-2	2040-Center (5)	Solid	09/23/21 09:15	09/24/21 19:31
410-56522-3	2045-Center (5)	Solid	09/23/21 09:30	09/24/21 19:31
410-56522-4	941-Center (5)	Solid	09/23/21 09:50	09/24/21 19:31
410-56522-5	7550-Center (5)	Solid	09/23/21 10:24	09/24/21 19:31
410-56522-6	7550-P2 (3)	Solid	09/23/21 11:10	09/24/21 19:31
410-56522-7	7550-P1 (3)	Solid	09/23/21 11:25	09/24/21 19:31
410-56522-8	7550-P7 (3)	Solid	09/23/21 11:40	09/24/21 19:31
410-56522-9	7550-P6 (3)	Solid	09/23/21 11:55	09/24/21 19:31
410-56522-10	7550-P3 (3)	Solid	09/23/21 12:05	09/24/21 19:31
410-56522-11	UNK-ST-W (3)	Solid	09/23/21 12:20	09/24/21 19:31
410-56522-12	UNK-ST-E (3)	Solid	09/23/21 12:30	09/24/21 19:31
410-56522-13	7550-P4 (3)	Solid	09/23/21 12:40	09/24/21 19:31
410-56522-14	7550-P5 (3)	Solid	09/23/21 12:50	09/24/21 19:31
410-56522-15	7551-Center (5)	Solid	09/23/21 13:05	09/24/21 19:31
410-56522-16	DUP-9	Solid	09/23/21 00:00	09/24/21 19:31
410-56522-17	Trip Blank	Water	09/23/21 00:00	09/24/21 19:31

...tories Env, LLC

Chain of Custody Record

eurofins Environment Testing America

410-56522 Chain of Custody

Mark Schaeffer	Sampler: DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-31049-9562.8
Company: Stantec Consulting Corp.	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 8 of 8
Address: 1060 Andrew Drive Suite 140	PWSID:	Analysis Requested		Job #:
City: West Chester	Due Date Requested:			
State, Zip: PA, 19380	TAT Requested (days): 5 day			
Phone:	Compliance Project: Δ Yes Δ No			
Email: mark.schaeffer@stantec.com	PO #: Purchase Order Requested			
Project Name: PBF Logistics	WO #:			
Site: 51st Street Terminal	Project #: 41007459			
	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	N	N	A	X	
4847-P5 (3)	9/23/21	0850	G	Solid		X	X			
2040-center (5)	9/23/21	0915	G	Solid		X	X			
2045-center (5)	9/23/21	0930	G	Solid		X	X			
941-center (5)	9/23/21	0950	G	Water Solid		X	X			
7550-center (5)	9/23/21	1024	G	Water Solid		X	X			
7550-P2 (3)	9/23/21	1110	G	Water Solid		X	X			
7550-P1 (3)	9/23/21	1125	G	Water Solid		X	X			
7550-P7 (3)	9/23/21	1140	G	Water Solid		X	X			
7550-P6 (3)	9/23/21	1155	G	Solid		X	X			
7550-P3 (3)	9/23/21	1205	G	Solid		X	X			
UNK-ST-W (3)	9/23/21	1220	G	Solid		X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 9-24-21 1340	Company: Stantec	Received by:	Date/Time: 9-24-21 1340	Company: Stantec		
Relinquished by:	Date/Time: 9-24-21 1910	Company: Stantec	Received by:	Date/Time:	Company:		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 9-24-21 1931	Company: GLG		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.4				

Ver: 06/08/2021

AC11

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: DH	Lab PM: Carter, Amek A	Carrier Tracking No(s):	COC No: 410-31049-9562.8
Client Contact: Mark Schaeffer	Phone: 484 467 3657	E-Mail: Loran.Carter@eurofinset.com	State of Origin: PA	Page: Page 8 of 8
Company: Stantec Consulting Corp.	PWSID:			Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			
City: West Chester	TAT Requested (days): 5 day			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: mark.schaeffer@stantec.com	WO #:			
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	A		
UNK-ST-E (3)	9/23/21	1230	G	Solid		X	X			
7550-P4 (3)	9/23/21	1240	G	Solid		X	X			
7550-P5 (3)	9/23/21	1250	G	Solid		X	X			
7551-Center (5)	9/23/21	1305	G	~~Water~~ Solid		X	Y			
DUP-9	9/23/21	—	G	~~Water~~ Solid		X	X			
Trip Blank	9/23/21	—	—	~~Water~~				X		
				~~Water~~						
				~~Water~~						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	9-24-21 1340	Stantec	[signature]	9-24-21 1340	Lancaster
2	[signature]	9-24-21 1910	Lancaster			
3				[signature]	9-24-21 1931	ECLE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4

Ver: 06/08/2021

1 5 11

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-56522-1

Login Number: 56522

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Hess, Anna

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-57140-1
Client Project/Site: PBF Logistics

For:
Stantec Consulting Corp.
1060 Andrew Drive
Suite 140
West Chester, Pennsylvania 19380

Attn: Mark Schaeffer

Authorized for release by:
10/7/2021 5:17:21 PM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@eurofinset.com

LINKS

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Visit us at:
www.eurofinsus.com/Env

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Amek Carter
Project Manager
10/7/2021 5:17:21 PM

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Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-57140-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-57140-1

Receipt
The samples were received on 9/30/2021 8:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

GC/MS VOA
Method 8260C: The following sample was diluted due to the abundance of non-target analytes: 7551 - East (5) (410-57140-5). Elevated reporting limits (RLs) are provided.

Method 8260C_UST: Internal standard (ISTD) response for t-Butyl alcohol-d10 for the following sample was outside acceptance criteria: Trip Blank (410-57140-6). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260C_UST: The continuing calibration verification (CCV) associated with batch 410-178934 recovered above the upper control limit for 1,3,5-Trimethylbenzene and 1,2,4-Trimethylbenzene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Client Sample ID: 7550 - North (2.5) — Lab Sample ID: 410-57140-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	0.85	J	4.2	0.42	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.0	J	4.2	0.42	ug/Kg	1	☼	8260C	Total/NA
Lead	1.6		1.5	0.62	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550 - South (2.25) — Lab Sample ID: 410-57140-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	3.8	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	5.7	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	6.3	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5.5	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	4.1	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	5.1	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Lead	5.6		1.6	0.64	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7550 - East (2) — Lab Sample ID: 410-57140-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	6.9	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	8.8	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	10	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	7.2	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	7.9	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	6.6	J	19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	12	J	19	3.8	ug/Kg	1	☼	8270D	Total/NA
Lead	3.2		1.5	0.61	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551 - North (5) — Lab Sample ID: 410-57140-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	1.7	J	9.1	0.91	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.3	J	9.1	1.1	ug/Kg	1	☼	8260C	Total/NA
Methyl tertiary butyl ether	6.5	J	9.1	0.91	ug/Kg	1	☼	8260C	Total/NA
Anthracene	21	J	28	5.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	8.2	J	28	6.8	ug/Kg	1	☼	8270D	Total/NA
Lead	13		2.5	1.0	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: 7551 - East (5) — Lab Sample ID: 410-57140-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	81	J	580	58	ug/Kg	100	☼	8260C	Total/NA
Methyl tertiary butyl ether	240	J	580	58	ug/Kg	100	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	170	J	580	58	ug/Kg	100	☼	8260C	Total/NA
Anthracene	630		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	500		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	270		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	430		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	180		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	530		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	780		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	4000		19	4.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1800		19	3.9	ug/Kg	1	☼	8270D	Total/NA
Lead	36		1.6	0.66	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Client Sample ID: Trip Blank — Lab Sample ID: 410-57140-6

No Detections.

Client Sample ID: 7551 - South (5) — Lab Sample ID: 410-57140-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	59		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	190		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	160		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	110		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	160		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	17	J	22	4.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	190		22	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	320		22	4.4	ug/Kg	1	☼	8270D	Total/NA
Lead	32		2.0	0.79	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 7550 - North (2.5)

Lab Sample ID: 410-57140-1

Date Collected: 09/29/21 11:50
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		4.2	0.34	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
1,2-Dichloroethane	ND		4.2	0.51	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
1,3,5-Trimethylbenzene	**0.85**	**J**	4.2	0.42	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
Toluene	ND		4.2	0.51	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
Xylenes, Total	ND		8.5	1.2	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
Methyl tertiary butyl ether	ND		4.2	0.42	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
Benzene	ND		4.2	0.42	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
Naphthalene	ND		4.2	1.7	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
1,2,4-Trimethylbenzene	**1.0**	**J**	4.2	0.42	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
Isopropylbenzene	ND		4.2	0.34	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1
1,2-Dibromoethane	ND		4.2	0.34	ug/Kg	☼	10/01/21 09:17	10/03/21 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*54 - 135*	*10/01/21 09:17*	*10/03/21 17:42*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*10/01/21 09:17*	*10/03/21 17:42*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 141*	*10/01/21 09:17*	*10/03/21 17:42*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*10/01/21 09:17*	*10/03/21 17:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Benzo[a]anthracene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Benzo[a]pyrene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Benzo[b]fluoranthene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Benzo[g,h,i]perylene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Chrysene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Fluorene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Phenanthrene	ND		18	4.3	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1
Pyrene	ND		18	3.6	ug/Kg	☼	10/01/21 18:40	10/07/21 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*39 - 100*	*10/01/21 18:40*	*10/07/21 01:51*	*1*
Nitrobenzene-d5 (Surr)	*75*		*32 - 97*	*10/01/21 18:40*	*10/07/21 01:51*	*1*
p-Terphenyl-d14 (Surr)	*101*		*45 - 108*	*10/01/21 18:40*	*10/07/21 01:51*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.6**		1.5	0.62	mg/Kg	☼	09/30/21 13:37	10/01/21 19:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		1.0	1.0	%			09/30/21 12:19	1

Client Sample ID: 7550 - South (2.25)

Lab Sample ID: 410-57140-2

Date Collected: 09/29/21 12:10
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 86.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.5	0.44	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
1,2-Dichloroethane	ND		5.5	0.66	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1

Client Sample ID: 7550 - South (2.25)

Lab Sample ID: 410-57140-2

Date Collected: 09/29/21 12:10
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 86.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
Toluene	ND		5.5	0.66	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
Methyl tertiary butyl ether	ND		5.5	0.55	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
Benzene	ND		5.5	0.55	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
Naphthalene	ND		5.5	2.2	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
1,2,4-Trimethylbenzene	ND		5.5	0.55	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
Isopropylbenzene	ND		5.5	0.44	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1
1,2-Dibromoethane	ND		5.5	0.44	ug/Kg	☼	10/01/21 09:17	10/03/21 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*54 - 135*	*10/01/21 09:17*	*10/03/21 20:47*	*1*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*10/01/21 09:17*	*10/03/21 20:47*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*	*10/01/21 09:17*	*10/03/21 20:47*	*1*
Toluene-d8 (Surr)	*96*		*52 - 141*	*10/01/21 09:17*	*10/03/21 20:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Benzo[a]anthracene	**3.8**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Benzo[a]pyrene	**5.7**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Benzo[b]fluoranthene	**6.3**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Benzo[g,h,i]perylene	**5.5**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Chrysene	**4.1**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Fluorene	ND		19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Phenanthrene	ND		19	4.6	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1
Pyrene	**5.1**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*10/01/21 18:40*	*10/07/21 02:14*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*10/01/21 18:40*	*10/07/21 02:14*	*1*
p-Terphenyl-d14 (Surr)	*102*		*45 - 108*	*10/01/21 18:40*	*10/07/21 02:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**5.6**		1.6	0.64	mg/Kg	☼	09/30/21 13:37	10/05/21 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		1.0	1.0	%			09/30/21 12:19	1

Client Sample ID: 7550 - East (2)

Lab Sample ID: 410-57140-3

Date Collected: 09/29/21 12:30
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 87.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		4.3	0.34	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
1,2-Dichloroethane	ND		4.3	0.52	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
1,3,5-Trimethylbenzene	ND		4.3	0.43	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
Toluene	ND		4.3	0.52	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1

Client Sample ID: 7550 - East (2)

Lab Sample ID: 410-57140-3

Date Collected: 09/29/21 12:30
Date Received: 09/30/21 08:50

Matrix: Solid
Percent Solids: 87.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		8.6	1.2	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
Methyl tertiary butyl ether	ND		4.3	0.43	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
Benzene	ND		4.3	0.43	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
Naphthalene	ND		4.3	1.7	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
1,2,4-Trimethylbenzene	ND		4.3	0.43	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
Isopropylbenzene	ND		4.3	0.34	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1
1,2-Dibromoethane	ND		4.3	0.34	ug/Kg	☼	10/01/21 11:11	10/03/21 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*54 - 135*	*10/01/21 11:11*	*10/03/21 18:06*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*	*10/01/21 11:11*	*10/03/21 18:06*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 141*	*10/01/21 11:11*	*10/03/21 18:06*	*1*
Toluene-d8 (Surr)	*94*		*52 - 141*	*10/01/21 11:11*	*10/03/21 18:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Benzo[a]anthracene	**6.9**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Benzo[a]pyrene	**8.8**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Benzo[b]fluoranthene	**10**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Benzo[g,h,i]perylene	**7.2**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Chrysene	**7.9**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Fluorene	ND		19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Phenanthrene	**6.6**	**J**	19	4.6	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1
Pyrene	**12**	**J**	19	3.8	ug/Kg	☼	10/01/21 18:40	10/07/21 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*39 - 100*	*10/01/21 18:40*	*10/07/21 02:37*	*1*
Nitrobenzene-d5 (Surr)	*76*		*32 - 97*	*10/01/21 18:40*	*10/07/21 02:37*	*1*
p-Terphenyl-d14 (Surr)	*102*		*45 - 108*	*10/01/21 18:40*	*10/07/21 02:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**3.2**		1.5	0.61	mg/Kg	☼	09/30/21 13:37	10/01/21 19:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.4**		1.0	1.0	%			09/30/21 12:19	1

Client Sample ID: 7551 - North (5)

Lab Sample ID: 410-57140-4

Date Collected: 09/29/21 13:00
Date Received: 09/30/21 08:50

Matrix: Solid
Percent Solids: 58.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.1	0.73	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
1,2-Dichloroethane	ND		9.1	1.1	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
1,3,5-Trimethylbenzene	**1.7**	**J**	9.1	0.91	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
Toluene	**2.3**	**J**	9.1	1.1	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
Xylenes, Total	ND		18	2.6	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
Methyl tertiary butyl ether	**6.5**	**J**	9.1	0.91	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1

Client Sample ID: 7551 - North (5)

Lab Sample ID: 410-57140-4

Date Collected: 09/29/21 13:00
Date Received: 09/30/21 08:50

Matrix: Solid
Percent Solids: 58.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		9.1	0.91	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
Naphthalene	ND		9.1	3.7	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
1,2,4-Trimethylbenzene	ND		9.1	0.91	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
Isopropylbenzene	ND		9.1	0.73	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1
1,2-Dibromoethane	ND		9.1	0.73	ug/Kg	☼	10/01/21 11:11	10/03/21 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*54 - 135*	*10/01/21 11:11*	*10/03/21 18:29*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*	*10/01/21 11:11*	*10/03/21 18:29*	*1*
Dibromofluoromethane (Surr)	*36*	*S1-*	*50 - 141*	*10/01/21 11:11*	*10/03/21 18:29*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*	*10/01/21 11:11*	*10/03/21 18:29*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**21**	**J**	28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Benzo[a]anthracene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Benzo[a]pyrene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Benzo[b]fluoranthene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Benzo[g,h,i]perylene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Chrysene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Fluorene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Phenanthrene	**8.2**	**J**	28	6.8	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1
Pyrene	ND		28	5.7	ug/Kg	☼	10/01/21 18:40	10/07/21 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*45*		*39 - 100*	*10/01/21 18:40*	*10/07/21 03:01*	*1*
Nitrobenzene-d5 (Surr)	*44*		*32 - 97*	*10/01/21 18:40*	*10/07/21 03:01*	*1*
p-Terphenyl-d14 (Surr)	*60*		*45 - 108*	*10/01/21 18:40*	*10/07/21 03:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		2.5	1.0	mg/Kg	☼	09/30/21 13:37	10/01/21 19:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**41.8**		1.0	1.0	%			09/30/21 12:19	1

Client Sample ID: 7551 - East (5)

Lab Sample ID: 410-57140-5

Date Collected: 09/29/21 13:20
Date Received: 09/30/21 08:50

Matrix: Solid
Percent Solids: 86.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		580	46	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
1,2-Dichloroethane	ND		580	70	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
1,3,5-Trimethylbenzene	**81**	**J**	580	58	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
Toluene	ND		580	70	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
Xylenes, Total	ND		1200	160	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
Methyl tertiary butyl ether	**240**	**J**	580	58	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
Benzene	ND		580	58	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
Naphthalene	ND		580	230	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100

Client Sample ID: 7551 - East (5)

Lab Sample ID: 410-57140-5

Date Collected: 09/29/21 13:20
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 86.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	170	J	580	58	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
Isopropylbenzene	ND		580	46	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100
1,2-Dibromoethane	ND		580	46	ug/Kg	☼	10/01/21 11:16	10/04/21 18:39	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*54 - 135*	*10/01/21 11:16*	*10/04/21 18:39*	*100*
4-Bromofluorobenzene (Surr)	*92*		*50 - 131*	*10/01/21 11:16*	*10/04/21 18:39*	*100*
Dibromofluoromethane (Surr)	*86*		*50 - 141*	*10/01/21 11:16*	*10/04/21 18:39*	*100*
Toluene-d8 (Surr)	*87*		*52 - 141*	*10/01/21 11:16*	*10/04/21 18:39*	*100*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	630		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Benzo[a]anthracene	500		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Benzo[a]pyrene	270		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Benzo[b]fluoranthene	430		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Benzo[g,h,i]perylene	180		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Chrysene	530		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Fluorene	780		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Phenanthrene	4000		19	4.6	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1
Pyrene	1800		19	3.9	ug/Kg	☼	10/01/21 18:40	10/07/21 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*39 - 100*	*10/01/21 18:40*	*10/07/21 03:24*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 97*	*10/01/21 18:40*	*10/07/21 03:24*	*1*
p-Terphenyl-d14 (Surr)	*80*		*45 - 108*	*10/01/21 18:40*	*10/07/21 03:24*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	36		1.6	0.66	mg/Kg	☼	09/30/21 13:37	10/01/21 19:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.6		1.0	1.0	%			09/30/21 12:19	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-57140-6

Date Collected: 09/29/21 00:00
Matrix: Water
Date Received: 09/30/21 08:50

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			10/05/21 15:53	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/21 15:53	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/05/21 15:53	1
1,3,5-Trimethylbenzene	ND	^c	5.0	0.30	ug/L			10/05/21 15:53	1
Toluene	ND		1.0	0.30	ug/L			10/05/21 15:53	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/21 15:53	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/21 15:53	1
Benzene	ND		1.0	0.30	ug/L			10/05/21 15:53	1
Naphthalene	ND		5.0	1.0	ug/L			10/05/21 15:53	1
1,2,4-Trimethylbenzene	ND	^c	5.0	1.0	ug/L			10/05/21 15:53	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-57140-6

Date Collected: 09/29/21 00:00

Matrix: Water

Date Received: 09/30/21 08:50

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.30	ug/L			10/05/21 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*10/05/21 15:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/05/21 15:53*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*10/05/21 15:53*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/05/21 15:53*	*1*

Client Sample ID: 7551 - South (5)

Lab Sample ID: 410-57140-7

Date Collected: 09/29/21 13:40

Matrix: Solid

Date Received: 09/30/21 08:50

Percent Solids: 73.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.4	0.43	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
1,2-Dichloroethane	ND		5.4	0.65	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
1,3,5-Trimethylbenzene	ND		5.4	0.54	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
Toluene	ND		5.4	0.65	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
Xylenes, Total	ND		11	1.5	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
Methyl tertiary butyl ether	ND		5.4	0.54	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
Benzene	ND		5.4	0.54	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
Naphthalene	ND		5.4	2.2	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
1,2,4-Trimethylbenzene	ND		5.4	0.54	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
Isopropylbenzene	ND		5.4	0.43	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1
1,2-Dibromoethane	ND		5.4	0.43	ug/Kg	☼	10/01/21 11:11	10/05/21 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*54 - 135*	*10/01/21 11:11*	*10/05/21 15:49*	*1*
4-Bromofluorobenzene (Surr)	*93*		*50 - 131*	*10/01/21 11:11*	*10/05/21 15:49*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*	*10/01/21 11:11*	*10/05/21 15:49*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*	*10/01/21 11:11*	*10/05/21 15:49*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**59**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Benzo[a]anthracene	**190**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Benzo[a]pyrene	**160**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Benzo[b]fluoranthene	**190**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Benzo[g,h,i]perylene	**110**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Chrysene	**160**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Fluorene	**17**	**J**	22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Phenanthrene	**190**		22	5.3	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1
Pyrene	**320**		22	4.4	ug/Kg	☼	10/01/21 18:40	10/07/21 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*39 - 100*	*10/01/21 18:40*	*10/07/21 03:47*	*1*
Nitrobenzene-d5 (Surr)	*74*		*32 - 97*	*10/01/21 18:40*	*10/07/21 03:47*	*1*
p-Terphenyl-d14 (Surr)	*96*		*45 - 108*	*10/01/21 18:40*	*10/07/21 03:47*	*1*

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Client Sample ID: 7551 - South (5)
Date Collected: 09/29/21 13:40
Date Received: 09/30/21 08:50

Lab Sample ID: 410-57140-7
Matrix: Solid
Percent Solids: 73.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	32		2.0	0.79	mg/Kg	☼	09/30/21 13:37	10/01/21 19:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.2		1.0	1.0	%			09/30/21 12:19	1

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-57140-1	7550 - North (2.5)	114	93	104	95
410-57140-2	7550 - South (2.25)	113	92	108	96
410-57140-3	7550 - East (2)	110	91	105	94
410-57140-4	7551 - North (5)	110	94	36 S1-	97
410-57140-5	7551 - East (5)	94	92	86	87
410-57140-7	7551 - South (5)	120	93	108	95
LCS 410-178181/4	Lab Control Sample	104	96	104	98
LCS 410-178968/4	Lab Control Sample	106	96	106	99
LCSD 410-178181/5	Lab Control Sample Dup	103	95	103	99
LCSD 410-178968/5	Lab Control Sample Dup	103	96	105	98
MB 410-178181/7	Method Blank	106	94	106	97
MB 410-178968/7	Method Blank	107	91	108	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-57140-6	Trip Blank	95	99	96	102
LCS 410-178934/4	Lab Control Sample	102	100	96	103
LCSD 410-178934/5	Lab Control Sample Dup	101	102	95	103
MB 410-178934/6	Method Blank	100	99	96	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(39-100)	(32-97)	(45-108)
410-57140-1	7550 - North (2.5)	85	75	101
410-57140-2	7550 - South (2.25)	84	74	102
410-57140-3	7550 - East (2)	84	76	102
410-57140-4	7551 - North (5)	45	44	60
410-57140-5	7551 - East (5)	64	64	80
410-57140-7	7551 - South (5)	83	74	96
LCS 410-177890/2-A	Lab Control Sample	87	78	98
MB 410-177890/1-A	Method Blank	89	79	106

Surrogate Legend

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-178181/7
Matrix: Solid
Analysis Batch: 178181

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			10/03/21 15:57	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			10/03/21 15:57	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			10/03/21 15:57	1
Toluene	ND		5.0	0.60	ug/Kg			10/03/21 15:57	1
Xylenes, Total	ND		10	1.4	ug/Kg			10/03/21 15:57	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			10/03/21 15:57	1
Benzene	ND		5.0	0.50	ug/Kg			10/03/21 15:57	1
Naphthalene	ND		5.0	2.0	ug/Kg			10/03/21 15:57	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			10/03/21 15:57	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			10/03/21 15:57	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			10/03/21 15:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*		*10/03/21 15:57*	*1*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*		*10/03/21 15:57*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 141*		*10/03/21 15:57*	*1*
Toluene-d8 (Surr)	*97*		*52 - 141*		*10/03/21 15:57*	*1*

Lab Sample ID: LCS 410-178181/4
Matrix: Solid
Analysis Batch: 178181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	20.0	17.9		ug/Kg		89	78 - 120
1,2-Dichloroethane	20.0	19.9		ug/Kg		99	71 - 128
1,3,5-Trimethylbenzene	20.0	17.2		ug/Kg		86	73 - 120
Toluene	20.0	17.8		ug/Kg		89	80 - 120
Xylenes, Total	60.0	55.7		ug/Kg		93	75 - 120
Methyl tertiary butyl ether	20.0	20.0		ug/Kg		100	72 - 120
Benzene	20.0	18.7		ug/Kg		94	80 - 120
Naphthalene	20.0	18.6		ug/Kg		93	48 - 130
1,2,4-Trimethylbenzene	20.0	17.3		ug/Kg		87	73 - 120
Isopropylbenzene	20.0	18.2		ug/Kg		91	77 - 120
1,2-Dibromoethane	20.0	19.5		ug/Kg		98	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*104*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Lab Sample ID: LCSD 410-178181/5
Matrix: Solid
Analysis Batch: 178181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	17.4		ug/Kg		87	78 - 120	3	30
1,2-Dichloroethane	20.0	19.6		ug/Kg		98	71 - 128	1	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-178181/5
Matrix: Solid
Analysis Batch: 178181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			20.0	16.9		ug/Kg		85	73 - 120	2	30
Toluene			20.0	17.4		ug/Kg		87	80 - 120	2	30
Xylenes, Total			60.0	53.7		ug/Kg		90	75 - 120	4	30
Methyl tertiary butyl ether			20.0	19.1		ug/Kg		95	72 - 120	5	30
Benzene			20.0	18.1		ug/Kg		90	80 - 120	3	30
Naphthalene			20.0	17.8		ug/Kg		89	48 - 130	4	30
1,2,4-Trimethylbenzene			20.0	17.4		ug/Kg		87	73 - 120	1	30
Isopropylbenzene			20.0	17.8		ug/Kg		89	77 - 120	2	30
1,2-Dibromoethane			20.0	19.0		ug/Kg		95	76 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*
Dibromofluoromethane (Surr)	*103*		*50 - 141*
Toluene-d8 (Surr)	*99*		*52 - 141*

Lab Sample ID: MB 410-178968/7
Matrix: Solid
Analysis Batch: 178968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.40	ug/Kg			10/05/21 15:08	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			10/05/21 15:08	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg			10/05/21 15:08	1
Toluene	ND		5.0	0.60	ug/Kg			10/05/21 15:08	1
Xylenes, Total	ND		10	1.4	ug/Kg			10/05/21 15:08	1
Methyl tertiary butyl ether	ND		5.0	0.50	ug/Kg			10/05/21 15:08	1
Benzene	ND		5.0	0.50	ug/Kg			10/05/21 15:08	1
Naphthalene	ND		5.0	2.0	ug/Kg			10/05/21 15:08	1
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg			10/05/21 15:08	1
Isopropylbenzene	ND		5.0	0.40	ug/Kg			10/05/21 15:08	1
1,2-Dibromoethane	ND		5.0	0.40	ug/Kg			10/05/21 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*54 - 135*		*10/05/21 15:08*	*1*
4-Bromofluorobenzene (Surr)	*91*		*50 - 131*		*10/05/21 15:08*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 141*		*10/05/21 15:08*	*1*
Toluene-d8 (Surr)	*95*		*52 - 141*		*10/05/21 15:08*	*1*

Lab Sample ID: LCS 410-178968/4
Matrix: Solid
Analysis Batch: 178968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene			20.0	19.2		ug/Kg		96	78 - 120
1,2-Dichloroethane			20.0	20.6		ug/Kg		103	71 - 128
1,3,5-Trimethylbenzene			20.0	18.3		ug/Kg		92	73 - 120
Toluene			20.0	19.1		ug/Kg		96	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-178968/4
Matrix: Solid
Analysis Batch: 178968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	60.0	59.9		ug/Kg		100	75 - 120
Methyl tertiary butyl ether	20.0	20.5		ug/Kg		102	72 - 120
Benzene	20.0	20.1		ug/Kg		100	80 - 120
Naphthalene	20.0	18.8		ug/Kg		94	48 - 130
1,2,4-Trimethylbenzene	20.0	18.6		ug/Kg		93	73 - 120
Isopropylbenzene	20.0	19.9		ug/Kg		99	77 - 120
1,2-Dibromoethane	20.0	20.4		ug/Kg		102	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*106*		*50 - 141*
Toluene-d8 (Surr)	*99*		*52 - 141*

Lab Sample ID: LCSD 410-178968/5
Matrix: Solid
Analysis Batch: 178968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	20.0	18.9		ug/Kg		94	78 - 120	2	30
1,2-Dichloroethane	20.0	20.8		ug/Kg		104	71 - 128	1	30
1,3,5-Trimethylbenzene	20.0	18.0		ug/Kg		90	73 - 120	2	30
Toluene	20.0	18.8		ug/Kg		94	80 - 120	2	30
Xylenes, Total	60.0	59.1		ug/Kg		99	75 - 120	1	30
Methyl tertiary butyl ether	20.0	20.6		ug/Kg		103	72 - 120	1	30
Benzene	20.0	20.0		ug/Kg		100	80 - 120	1	30
Naphthalene	20.0	18.4		ug/Kg		92	48 - 130	2	30
1,2,4-Trimethylbenzene	20.0	18.2		ug/Kg		91	73 - 120	3	30
Isopropylbenzene	20.0	19.7		ug/Kg		98	77 - 120	1	30
1,2-Dibromoethane	20.0	20.4		ug/Kg		102	76 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*54 - 135*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*
Dibromofluoromethane (Surr)	*105*		*50 - 141*
Toluene-d8 (Surr)	*98*		*52 - 141*

Method: 8260C/UST - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-178934/6
Matrix: Water
Analysis Batch: 178934

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.30	ug/L			10/05/21 13:06	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/21 13:06	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/05/21 13:06	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			10/05/21 13:06	1

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-178934/6
Matrix: Water
Analysis Batch: 178934

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.30	ug/L			10/05/21 13:06	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/21 13:06	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/21 13:06	1
Benzene	ND		1.0	0.30	ug/L			10/05/21 13:06	1
Naphthalene	ND		5.0	1.0	ug/L			10/05/21 13:06	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			10/05/21 13:06	1
Isopropylbenzene	ND		5.0	0.30	ug/L			10/05/21 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*10/05/21 13:06*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/05/21 13:06*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*10/05/21 13:06*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/05/21 13:06*	*1*

Lab Sample ID: LCS 410-178934/4
Matrix: Water
Analysis Batch: 178934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			20.0	19.7		ug/L		99	77 - 120		
Ethylbenzene			20.0	22.3		ug/L		112	80 - 120		
1,2-Dichloroethane			20.0	19.1		ug/L		96	73 - 124		
1,3,5-Trimethylbenzene			20.0	21.5		ug/L		108	75 - 120		
Toluene			20.0	19.5		ug/L		98	80 - 120		
Xylenes, Total			60.0	58.4		ug/L		97	80 - 120		
Methyl tertiary butyl ether			20.0	19.7		ug/L		99	69 - 122		
Benzene			20.0	20.5		ug/L		102	80 - 120		
Naphthalene			20.0	21.6		ug/L		108	53 - 124		
1,2,4-Trimethylbenzene			20.0	21.4		ug/L		107	75 - 120		
Isopropylbenzene			20.0	19.3		ug/L		96	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 410-178934/5
Matrix: Water
Analysis Batch: 178934

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	19.5		ug/L		98	77 - 120	1	30
Ethylbenzene			20.0	22.5		ug/L		112	80 - 120	1	30
1,2-Dichloroethane			20.0	19.1		ug/L		95	73 - 124	0	30
1,3,5-Trimethylbenzene			20.0	21.5		ug/L		107	75 - 120	0	30
Toluene			20.0	19.6		ug/L		98	80 - 120	1	30
Xylenes, Total			60.0	58.7		ug/L		98	80 - 120	1	30

Method: 8260C/UST - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-178934/5
Matrix: Water
Analysis Batch: 178934

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tertiary butyl ether			20.0	19.8		ug/L		99	69 - 122	0	30
Benzene			20.0	20.3		ug/L		101	80 - 120	1	30
Naphthalene			20.0	19.8		ug/L		99	53 - 124	8	30
1,2,4-Trimethylbenzene			20.0	21.4		ug/L		107	75 - 120	0	30
Isopropylbenzene			20.0	19.2		ug/L		96	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-177890/1-A
Matrix: Solid
Analysis Batch: 179769

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Chrysene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Fluorene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Phenanthrene	ND		17	4.0	ug/Kg		10/01/21 18:40	10/06/21 22:20	1
Pyrene	ND		17	3.3	ug/Kg		10/01/21 18:40	10/06/21 22:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*39 - 100*	*10/01/21 18:40*	*10/06/21 22:20*	*1*
Nitrobenzene-d5 (Surr)	*79*		*32 - 97*	*10/01/21 18:40*	*10/06/21 22:20*	*1*
p-Terphenyl-d14 (Surr)	*106*		*45 - 108*	*10/01/21 18:40*	*10/06/21 22:20*	*1*

Lab Sample ID: LCS 410-177890/2-A
Matrix: Solid
Analysis Batch: 179769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene			1670	1580		ug/Kg		95	75 - 120
Benzo[a]anthracene			1670	1680		ug/Kg		101	73 - 120
Benzo[a]pyrene			1670	1660		ug/Kg		99	80 - 123
Benzo[b]fluoranthene			1670	1550		ug/Kg		93	63 - 120
Benzo[g,h,i]perylene			1670	1790		ug/Kg		107	77 - 120
Chrysene			1670	1550		ug/Kg		93	66 - 120
Fluorene			1670	1460		ug/Kg		88	68 - 120
Phenanthrene			1670	1510		ug/Kg		91	74 - 120
Pyrene			1670	1450		ug/Kg		87	70 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-177890/2-A
Matrix: Solid
Analysis Batch: 179769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177890

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*87*		*39 - 100*
Nitrobenzene-d5 (Surr)	*78*		*32 - 97*
p-Terphenyl-d14 (Surr)	*98*		*45 - 108*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-177343/1-A
Matrix: Solid
Analysis Batch: 177956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		09/30/21 13:37	10/01/21 18:12	1

Lab Sample ID: MB 410-177343/1-A
Matrix: Solid
Analysis Batch: 178586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.60	mg/Kg		09/30/21 13:37	10/04/21 14:01	1

Lab Sample ID: LCS 410-177343/2-A
Matrix: Solid
Analysis Batch: 177956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.62		mg/Kg		112	80 - 120

Lab Sample ID: LCS 410-177343/2-A
Matrix: Solid
Analysis Batch: 178586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.00	5.36		mg/Kg		107	80 - 120

GC/MS VOA

Prep Batch: 177674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	5035	
410-57140-2	7550 - South (2.25)	Total/NA	Solid	5035	
410-57140-3	7550 - East (2)	Total/NA	Solid	5035	
410-57140-4 - RA	7551 - North (5)	Total/NA	Solid	5035	
410-57140-4	7551 - North (5)	Total/NA	Solid	5035	
410-57140-7	7551 - South (5)	Total/NA	Solid	5035	

Prep Batch: 177675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-5	7551 - East (5)	Total/NA	Solid	5035	

Analysis Batch: 178181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	8260C	177674
410-57140-2	7550 - South (2.25)	Total/NA	Solid	8260C	177674
410-57140-3	7550 - East (2)	Total/NA	Solid	8260C	177674
410-57140-4	7551 - North (5)	Total/NA	Solid	8260C	177674
MB 410-178181/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-178181/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-178181/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 178341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-5	7551 - East (5)	Total/NA	Solid	8260C	177675

Analysis Batch: 178432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-4 - RA	7551 - North (5)	Total/NA	Solid	8260C	177674
MB 410-178432/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-178432/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-178432/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 178934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-6	Trip Blank	Total/NA	Water	8260C/UST	
MB 410-178934/6	Method Blank	Total/NA	Water	8260C/UST	
LCS 410-178934/4	Lab Control Sample	Total/NA	Water	8260C/UST	
LCSD 410-178934/5	Lab Control Sample Dup	Total/NA	Water	8260C/UST	

Analysis Batch: 178968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-7	7551 - South (5)	Total/NA	Solid	8260C	177674
MB 410-178968/7	Method Blank	Total/NA	Solid	8260C	
LCS 410-178968/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 410-178968/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 177890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 177890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-2	7550 - South (2.25)	Total/NA	Solid	3546	
410-57140-3	7550 - East (2)	Total/NA	Solid	3546	
410-57140-4	7551 - North (5)	Total/NA	Solid	3546	
410-57140-5	7551 - East (5)	Total/NA	Solid	3546	
410-57140-7	7551 - South (5)	Total/NA	Solid	3546	
MB 410-177890/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-177890/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 179769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	8270D	177890
410-57140-2	7550 - South (2.25)	Total/NA	Solid	8270D	177890
410-57140-3	7550 - East (2)	Total/NA	Solid	8270D	177890
410-57140-4	7551 - North (5)	Total/NA	Solid	8270D	177890
410-57140-5	7551 - East (5)	Total/NA	Solid	8270D	177890
410-57140-7	7551 - South (5)	Total/NA	Solid	8270D	177890
MB 410-177890/1-A	Method Blank	Total/NA	Solid	8270D	177890
LCS 410-177890/2-A	Lab Control Sample	Total/NA	Solid	8270D	177890

Metals

Prep Batch: 177343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	3050B	
410-57140-2	7550 - South (2.25)	Total/NA	Solid	3050B	
410-57140-3	7550 - East (2)	Total/NA	Solid	3050B	
410-57140-4	7551 - North (5)	Total/NA	Solid	3050B	
410-57140-5	7551 - East (5)	Total/NA	Solid	3050B	
410-57140-7	7551 - South (5)	Total/NA	Solid	3050B	
MB 410-177343/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-177343/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 177956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	6010C	177343
410-57140-3	7550 - East (2)	Total/NA	Solid	6010C	177343
410-57140-4	7551 - North (5)	Total/NA	Solid	6010C	177343
410-57140-5	7551 - East (5)	Total/NA	Solid	6010C	177343
410-57140-7	7551 - South (5)	Total/NA	Solid	6010C	177343
MB 410-177343/1-A	Method Blank	Total/NA	Solid	6010C	177343
LCS 410-177343/2-A	Lab Control Sample	Total/NA	Solid	6010C	177343

Analysis Batch: 178586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-177343/1-A	Method Blank	Total/NA	Solid	6010C	177343
LCS 410-177343/2-A	Lab Control Sample	Total/NA	Solid	6010C	177343

Analysis Batch: 178989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-2	7550 - South (2.25)	Total/NA	Solid	6010C	177343

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

General Chemistry

Analysis Batch: 177285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57140-1	7550 - North (2.5)	Total/NA	Solid	Moisture	
410-57140-2	7550 - South (2.25)	Total/NA	Solid	Moisture	
410-57140-3	7550 - East (2)	Total/NA	Solid	Moisture	
410-57140-4	7551 - North (5)	Total/NA	Solid	Moisture	
410-57140-5	7551 - East (5)	Total/NA	Solid	Moisture	
410-57140-7	7551 - South (5)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Client Sample ID: 7550 - North (2.5)

Lab Sample ID: 410-57140-1

Date Collected: 09/29/21 11:50
Matrix: Solid
Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	177285	09/30/21 12:19	UWC1	ELLE

Client Sample ID: 7550 - North (2.5)

Lab Sample ID: 410-57140-1

Date Collected: 09/29/21 11:50
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			177674	10/01/21 09:17	JJT8	ELLE
Total/NA	Analysis	8260C		1	178181	10/03/21 17:42	UCB5	ELLE
Total/NA	Prep	3546			177890	10/01/21 18:40	QQ3P	ELLE
Total/NA	Analysis	8270D		1	179769	10/07/21 01:51	DZ6A	ELLE
Total/NA	Prep	3050B			177343	09/30/21 13:37	NWV2	ELLE
Total/NA	Analysis	6010C		1	177956	10/01/21 19:16	XQY5	ELLE

Client Sample ID: 7550 - South (2.25)

Lab Sample ID: 410-57140-2

Date Collected: 09/29/21 12:10
Matrix: Solid
Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	177285	09/30/21 12:19	UWC1	ELLE

Client Sample ID: 7550 - South (2.25)

Lab Sample ID: 410-57140-2

Date Collected: 09/29/21 12:10
Matrix: Solid
Date Received: 09/30/21 08:50
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			177674	10/01/21 09:17	JJT8	ELLE
Total/NA	Analysis	8260C		1	178181	10/03/21 20:47	UCB5	ELLE
Total/NA	Prep	3546			177890	10/01/21 18:40	QQ3P	ELLE
Total/NA	Analysis	8270D		1	179769	10/07/21 02:14	DZ6A	ELLE
Total/NA	Prep	3050B			177343	09/30/21 13:37	NWV2	ELLE
Total/NA	Analysis	6010C		1	178989	10/05/21 12:19	WJM9	ELLE

Client Sample ID: 7550 - East (2)

Lab Sample ID: 410-57140-3

Date Collected: 09/29/21 12:30
Matrix: Solid
Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	177285	09/30/21 12:19	UWC1	ELLE

Client Sample ID: 7550 - East (2)

Lab Sample ID: 410-57140-3

Date Collected: 09/29/21 12:30

Matrix: Solid

Date Received: 09/30/21 08:50

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			177674	10/01/21 11:11	JJT8	ELLE
Total/NA	Analysis	8260C		1	178181	10/03/21 18:06	UCB5	ELLE
Total/NA	Prep	3546			177890	10/01/21 18:40	QQ3P	ELLE
Total/NA	Analysis	8270D		1	179769	10/07/21 02:37	DZ6A	ELLE
Total/NA	Prep	3050B			177343	09/30/21 13:37	NWV2	ELLE
Total/NA	Analysis	6010C		1	177956	10/01/21 19:19	XQY5	ELLE

Client Sample ID: 7551 - North (5)

Lab Sample ID: 410-57140-4

Date Collected: 09/29/21 13:00

Matrix: Solid

Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	177285	09/30/21 12:19	UWC1	ELLE

Client Sample ID: 7551 - North (5)

Lab Sample ID: 410-57140-4

Date Collected: 09/29/21 13:00

Matrix: Solid

Date Received: 09/30/21 08:50

Percent Solids: 58.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			177674	10/01/21 11:11	JJT8	ELLE
Total/NA	Analysis	8260C		1	178181	10/03/21 18:29	UCB5	ELLE
Total/NA	Prep	5035	RA		177674	10/01/21 11:11	JJT8	ELLE
Total/NA	Analysis	8260C	RA	1	178432	10/04/21 16:58	UCB5	ELLE
Total/NA	Prep	3546			177890	10/01/21 18:40	QQ3P	ELLE
Total/NA	Analysis	8270D		1	179769	10/07/21 03:01	DZ6A	ELLE
Total/NA	Prep	3050B			177343	09/30/21 13:37	NWV2	ELLE
Total/NA	Analysis	6010C		1	177956	10/01/21 19:03	XQY5	ELLE

Client Sample ID: 7551 - East (5)

Lab Sample ID: 410-57140-5

Date Collected: 09/29/21 13:20

Matrix: Solid

Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	177285	09/30/21 12:19	UWC1	ELLE

Client Sample ID: 7551 - East (5)

Lab Sample ID: 410-57140-5

Date Collected: 09/29/21 13:20

Matrix: Solid

Date Received: 09/30/21 08:50

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			177675	10/01/21 11:16	JJT8	ELLE
Total/NA	Analysis	8260C		100	178341	10/04/21 18:39	USEJ	ELLE
Total/NA	Prep	3546			177890	10/01/21 18:40	QQ3P	ELLE
Total/NA	Analysis	8270D		1	179769	10/07/21 03:24	DZ6A	ELLE
Total/NA	Prep	3050B			177343	09/30/21 13:37	NWV2	ELLE
Total/NA	Analysis	6010C		1	177956	10/01/21 19:09	XQY5	ELLE

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-57140-6

Date Collected: 09/29/21 00:00

Matrix: Water

Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C/UST		1	178934	10/05/21 15:53	UKAD	ELLE

Client Sample ID: 7551 - South (5)

Lab Sample ID: 410-57140-7

Date Collected: 09/29/21 13:40

Matrix: Solid

Date Received: 09/30/21 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	177285	09/30/21 12:19	UWC1	ELLE

Client Sample ID: 7551 - South (5)

Lab Sample ID: 410-57140-7

Date Collected: 09/29/21 13:40

Matrix: Solid

Date Received: 09/30/21 08:50

Percent Solids: 73.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			177674	10/01/21 11:11	JJT8	ELLE
Total/NA	Analysis	8260C		1	178968	10/05/21 15:49	UCB5	ELLE
Total/NA	Prep	3546			177890	10/01/21 18:40	QQ3P	ELLE
Total/NA	Analysis	8270D		1	179769	10/07/21 03:47	DZ6A	ELLE
Total/NA	Prep	3050B			177343	09/30/21 13:37	NWV2	ELLE
Total/NA	Analysis	6010C		1	177956	10/01/21 19:22	XQY5	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8260C/UST	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010C	Metals (ICP)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: PBF Logistics

Job ID: 410-57140-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-57140-1	7550 - North (2.5)	Solid	09/29/21 11:50	09/30/21 08:50
410-57140-2	7550 - South (2.25)	Solid	09/29/21 12:10	09/30/21 08:50
410-57140-3	7550 - East (2)	Solid	09/29/21 12:30	09/30/21 08:50
410-57140-4	7551 - North (5)	Solid	09/29/21 13:00	09/30/21 08:50
410-57140-5	7551 - East (5)	Solid	09/29/21 13:20	09/30/21 08:50
410-57140-6	Trip Blank	Water	09/29/21 00:00	09/30/21 08:50
410-57140-7	7551 - South (5)	Solid	09/29/21 13:40	09/30/21 08:50

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custo

410-57140 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: Dana Hoblitzell		Lab PM:	COC No: 410-34893-9562.1
Client Contact: Mark Schaeffer	Phone: 484 354 5032		State of Origin: PA	Page: Page 1 of 1
Company: Stantec Consulting Corp		PWSID:	Analysis Requested	Job #:
Address: 1060 Andrew Drive Suite 140	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: West Chester	TAT Requested (days): 3 days			
State, Zip: PA, 19380	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 213403451			
Email: mark.schaeffer@stantec.com	WO #:			Other:
Project Name: PBF Logistics	Project #: 41007459			
Site: 51st Street Terminal	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260C - PA Combo of Leaded and Unleaded Gasoline	6010C, 8270D, Moisture	8260C_UST - PA Combo of Leaded and Unleaded Gasoline	Total Number of containers	Special Instructions/Note:
			Preservation Code:			F	N	A		
7550 - North (2.5)	9/29/21	1150	G	Solid		X	X			
7550 - South (2.25)	9/29/21	1210	G	Solid		X	X			
7550 - east (2)	9/29/21	1230	G	Solid		X	X			
7551 - North (5)	9/29/21	1300	G	Solid		X	X			
7551 - east (5)	9/29/21	1320	G	Solid		X	X			
Trip Blank	9/29/21	—	—	Water				X		
7551 - South (5)	9/29/21	1340	G	Solid		X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date: 9-29-21	Time: 1240	Method of Shipment:			
Relinquished by:	Date/Time: 9/29/21 1500	Company: Stantec	Received by:	Date/Time: 9/29/21 1500	Company: Stantec		
Relinquished by:	Date/Time: 9/30/21 850	Company: Stantec	Received by:	Date/Time:	Company:		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 9/30/21 0850	Company: DHL		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 410-57140-1

Login Number: 57140

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Lugardo, Tamara

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

ANALYTICAL REPORT

Lab Number:	L2158069
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 91ST STREET
Project Number:	30108678.01
Report Date:	11/05/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158069-01	TW-1	WATER	PHILA, PA	10/22/21 12:50	10/22/21
L2158069-02	TW-2	WATER	PHILA, PA	10/22/21 13:25	10/22/21
L2158069-03	TW-3	WATER	PHILA, PA	10/22/21 13:35	10/22/21
L2158069-04	TW-5	WATER	PHILA, PA	10/22/21 14:00	10/22/21
L2158069-05	PIPE 22 (13-13.5)	SOIL	PHILA, PA	10/22/21 11:50	10/22/21
L2158069-06	2040-P2 (4.5-5)	SOIL	PHILA, PA	10/22/21 11:45	10/22/21
L2158069-07	941 CENTER (11-11.5)	SOIL	PHILA, PA	10/22/21 11:15	10/22/21
L2158069-08	1044-P4 (6.5-7)	SOIL	PHILA, PA	10/22/21 10:45	10/22/21
L2158069-09	FIELD BLANK	WATER	PHILA, PA	10/22/21 14:20	10/22/21
L2158069-10	TRIP BLANK	WATER	PHILA, PA	10/22/21 00:00	10/22/21
L2158069-11	DUP-1	SOIL	PHILA, PA	10/22/21 00:00	10/22/21

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2158069-05: Sample containers for for Hold Sample VOC 8260 analysis were received for the "PIPE 22 (13-13.5)" sample, but were not listed on the chain of custody. At the client's request, the analysis was not performed.

L2158069-06: Sample containers for Hold Sample for VOC 8260 analysis were received for the "2040-P2 (4.5-5)" sample, but were not listed on the chain of custody. At the client's request, the analysis was not performed.

L2158069-08: Sample containers for Hold Sample for VOC 8260 analysis were received for the "1044-P4 (6.5-7)" sample, but were not listed on the chain of custody. At the client's request, the analysis was not performed.

L2158069-11: A sample identified as "DUP-1" was received, but not listed on the Chain of Custody. At the client's request, this sample was analyzed.

Volatile Organics

L2158069-01D and -04: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Sebastian Corbin

Title: Technical Director/Representative Date: 11/05/21

ORGANICS

VOLATILES

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-01 D
Client ID: TW-1
Sample Location: PHILA, PA
Date Collected: 10/22/21 12:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 15:07
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	65		ug/l	10	3.2	20
1,2,4-Trimethylbenzene	320		ug/l	50	3.8	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-03
Client ID: TW-3
Sample Location: PHILA, PA

Date Collected: 10/22/21 13:35
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 15:33
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	1.1	J	ug/l	2.5	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	86		70-130

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-04
Client ID: TW-5
Sample Location: PHILA, PA
Date Collected: 10/22/21 14:00
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 16:00
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	0.36	J	ug/l	0.50	0.16	1
1,2,4-Trimethylbenzene	1.5	J	ug/l	2.5	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	123		70-130

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-09
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 10/22/21 14:20
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 16:26
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	114		70-130

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-10
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 10/22/21 00:00
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 16:53
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	119		70-130

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/02/21 11:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04,09-10 Batch: WG1566554-5					
Benzene	ND		ug/l	0.50	0.16
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	113		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2158069

Report Date: 11/05/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04,09-10 Batch: WG1566554-3 WG1566554-4								
Benzene	97		97		70-130	0		20
1,2,4-Trimethylbenzene	87		90		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	88		93		70-130
Dibromofluoromethane	106		104		70-130

SEMIVOLATILES

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-07
Client ID: 941 CENTER (11-11.5)
Sample Location: PHILA, PA

Date Collected: 10/22/21 11:15
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/04/21 06:20
Analyst: JRW
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 11/03/21 09:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		mg/kg	0.19	0.057	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	47		30-120
4-Terphenyl-d14	38		18-120

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/21 22:28
Analyst: JRW

Extraction Method: EPA 3546
Extraction Date: 11/03/21 09:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1566536-1					
Benzo(a)pyrene	ND		mg/kg	0.13	0.040

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	70		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2158069

Report Date: 11/05/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1566536-2 WG1566536-3								
Benzo(a)pyrene	80		84		40-140	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		74		25-120
Phenol-d6	75		75		10-120
Nitrobenzene-d5	68		70		23-120
2-Fluorobiphenyl	75		75		30-120
2,4,6-Tribromophenol	89		92		10-136
4-Terphenyl-d14	84		87		18-120

METALS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-02
Client ID: TW-2
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/22/21 13:25
Date Received: 10/22/21
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.9818	J	ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 21:25	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-05
Client ID: PIPE 22 (13-13.5)
Sample Location: PHILA, PA
Date Collected: 10/22/21 11:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1520		mg/kg	2.47	0.132	1	10/28/21 21:26	10/29/21 14:53	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-06
Client ID: 2040-P2 (4.5-5)
Sample Location: PHILA, PA
Date Collected: 10/22/21 11:45
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	2.12		mg/kg	2.07	0.111	1	10/28/21 21:26	10/29/21 14:57	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE 91ST STREET
Lab Number: L2158069
Project Number: 30108678.01
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-08
Client ID: 1044-P4 (6.5-7)
Sample Location: PHILA, PA
Date Collected: 10/22/21 10:45
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	226		mg/kg	2.89	0.155	1	10/28/21 21:26	10/29/21 13:38	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-09
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/22/21 14:20
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	10/26/21 04:58	11/02/21 19:14	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-11
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 10/22/21 00:00
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Soil
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1.63	J	mg/kg	2.04	0.110	1	10/29/21 20:57	11/01/21 12:58	EPA 3050B	1,6010D	SV

Project Name: ALLIANCE 91ST STREET **Lab Number:** L2158069

Project Number: 30108678.01 **Report Date:** 11/05/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09 Batch: WG1561405-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	10/26/21 04:58	11/02/21 20:22	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-06,08 Batch: WG1564387-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	10/28/21 21:26	10/29/21 13:29	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02 Batch: WG1564853-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 19:46	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 11 Batch: WG1564921-1										
Lead, Total	0.108	J	mg/kg	2.00	0.107	1	10/29/21 20:57	11/01/21 11:39	1,6010D	SV

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2158069

Report Date: 11/05/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1561405-2								
Lead, Total	93		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 05-06,08 Batch: WG1564387-2 SRM Lot Number: D109-540								
Lead, Total	91		-		72-128	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1564853-2								
Lead, Dissolved	98		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1564921-2 SRM Lot Number: D109-540								
Lead, Total	97		-		72-128	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1561405-3 QC Sample: L2157138-01 Client ID: MS Sample												
Lead, Total	ND	530	518.1	98		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 05-06,08 QC Batch ID: WG1564387-3 QC Sample: L2158883-01 Client ID: MS Sample												
Lead, Total	3.03J	43.2	43.5	100		-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1564853-3 QC Sample: L2158069-02 Client ID: TW-2												
Lead, Dissolved	0.9818J	530	532.8	100		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1564921-3 QC Sample: L2158960-01 Client ID: MS Sample												
Lead, Total	13.2	52.2	57.2	84		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06,08 QC Batch ID: WG1564387-4 QC Sample: L2158883-01 Client ID: DUP Sample						
Lead, Total	3.03J	3.47J	mg/kg	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1564853-4 QC Sample: L2158069-02 Client ID: TW-2						
Lead, Dissolved	0.9818J	0.9661J	ug/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1564921-4 QC Sample: L2158960-01 Client ID: DUP Sample						
Lead, Total	13.2	15.7	mg/kg	17		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-05
Client ID: PIPE 22 (13-13.5)
Sample Location: PHILA, PA

Date Collected: 10/22/21 11:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-06
Client ID: 2040-P2 (4.5-5)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/22/21 11:45
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-07
Client ID: 941 CENTER (11-11.5)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/22/21 11:15
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.5		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-08
Client ID: 1044-P4 (6.5-7)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/22/21 10:45
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.2		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-11
Client ID: DUP-1
Sample Location: PHILA, PA

Date Collected: 10/22/21 00:00
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	11/02/21 11:10	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2158069

Report Date: 11/05/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-08 QC Batch ID: WG1562240-1 QC Sample: L2157967-05 Client ID: DUP Sample						
Solids, Total	93.2	92.7	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1566003-1 QC Sample: L2157814-03 Client ID: DUP Sample						
Solids, Total	72.1	70.7	%	2		20

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158069-01A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-01B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-01C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-02A	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2158069-03A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-03B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-03C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-04A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-04B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-04C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-05A	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-05B	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-05C	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-05D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2158069-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		PB-TI(180)
L2158069-05X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-05Y	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-05Z	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-06A	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-06B	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-06C	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-06D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2158069-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158069-06X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-06Y	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-06Z	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-07A	Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		TS(7),PA-PAH(14)
L2158069-07B	Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14)
L2158069-08A	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-08B	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-08C	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-08D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2158069-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		PB-TI(180)
L2158069-08X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-08Y	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-08Z	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-09A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-09B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-09C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-09D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020T-PPB(180)
L2158069-10A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-10B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-11A	Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		PB-TI(180)
L2158069-11X	Glass 60ml unpreserved split	A	NA		2.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10/23/21

ALPHA Job #: L2158069

Client Information
Client: Arcadis
Address: 1 Universal Way 5th Fl
Hillsborough, NJ
Phone: 908-526-3161
Fax:
Email: Larry.Grant@arcadis.com

Project Information
Project Name: Alliance Pipe Street
Project Location: Phila, PA
Project #: 30106678.01
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time
Standard: X — Due Date:
Rush (only if pre approved): — # of Days:

Deliverables
- NJ Full / Reduced
- EQuIS (1 File) — EQuIS (4 File)
- Other

Regulatory Requirement
- SRS Residential/Non Residential
- SRS Impact to Groundwater
- NJ Ground Water Quality Standards
- NJ IGW SPLP Leachate Criteria
- Other

Billing Information
- Same as Client Info

PO #

Site Information
Is this site impacted by Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
- Category 1
- Category 2

For VOC, selection is REQUIRED:
- 1,4-Dioxane
- 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
- X Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Benzene	1,2,4-trimethylbenzene	Total Lead		Total Lead	Benzo(a) Pyrene			Sample Specific Comments	Total Bottle
SBC69-01	~~Equip~~ TW-1	10/20/21	1240	AQ	MT	X	X								3
-02	TW-2		1325					X							1
-03	TW-3		1335				X								3
-04	TW-4		1400			X	X								3
-05	Pipe 22 (13-13.5)		1150	Soil						X					1
-06	2040-P2 (4.5-5)		1145							X					1
-07	941 Center (11-11.5)		1115								X				1
-08	1644-P4 (4.5-5)		1645							X					1
-09	Field Blank		1420	AQ		X	X	X							4
-10	Trip Blank			AQ		X	X							* Dup for Lead *	3

Container Type								
	AV	AV	P		A	A		
Preservative	R	R	C		A	A		

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Mihlan	10/22/21 1516		10/22/21 1516
	10/22/21 1800		10/22/21 1800
	10/22/21 20:35		10/22/21 2014
	10/22/21 2030		10/23/21 0305

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTRUCTIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2158500
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE-S. 51ST ST.
Project Number:	30108678
Report Date:	11/11/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158500-01	SB-101 (1.5-2)	SOIL	PHILADELPHIA, PA	10/25/21 14:15	10/26/21
L2158500-02	SB-102 (2.5-3)	SOIL	PHILADELPHIA, PA	10/25/21 14:20	10/26/21
L2158500-03	SB-103 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 14:25	10/26/21
L2158500-04	SB-104 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 14:35	10/26/21
L2158500-05	SB-105 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 14:45	10/26/21
L2158500-06	SB-106 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 14:55	10/26/21
L2158500-07	SB-107 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 15:00	10/26/21

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

Case Narrative (continued)

Report Revision

November 11, 2021: The Volatile Organics analyte list has been amended on all submitted samples. The Semivolatile Organics analyte list has been amended on L2158500-03 and -05D. In addition, Volatile Organics TICs have been added.

November 05, 2021: At the client's request, the Volatile Organics reporting list has been extended. Additionally, this report includes the results of the Semivolatile Organics analyses performed on L2158500-03 and -05.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2158500-01: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L2158500-01: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (167%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2158500-03 and -04D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L2158500-03D: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (156%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2158500-04D: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (258%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

Semivolatile Organics

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

Case Narrative (continued)

L2158500-03D and -05D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Semivolatile Organics by SIM

L2158500-03D: The sample has elevated detection limits due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 11/11/21

ORGANICS

VOLATILES

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-01
Client ID: SB-101 (1.5-2)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:15
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 01:42
Analyst: NLK
Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	1.1	0.10	1
Chloromethane	ND		mg/kg	0.45	0.10	1
Vinyl chloride	ND		mg/kg	0.11	0.038	1
Bromomethane	ND		mg/kg	0.23	0.066	1
Chloroethane	ND		mg/kg	0.23	0.051	1
Trichlorofluoromethane	ND		mg/kg	0.45	0.078	1
1,1-Dichloroethene	ND		mg/kg	0.11	0.027	1
Carbon disulfide	ND		mg/kg	1.1	0.51	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.45	0.078	1
Methylene chloride	ND		mg/kg	0.56	0.26	1
Acetone	ND		mg/kg	1.1	0.54	1
trans-1,2-Dichloroethene	ND		mg/kg	0.17	0.015	1
Methyl Acetate	ND		mg/kg	0.45	0.11	1
Methyl tert butyl ether	ND		mg/kg	0.23	0.023	1
1,1-Dichloroethane	ND		mg/kg	0.11	0.016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.11	0.020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.11	0.015	1
Cyclohexane	2.2		mg/kg	1.1	0.061	1
Bromochloromethane	ND		mg/kg	0.23	0.023	1
Chloroform	ND		mg/kg	0.17	0.016	1
Carbon tetrachloride	ND		mg/kg	0.11	0.026	1
1,1,1-Trichloroethane	ND		mg/kg	0.056	0.019	1
2-Butanone	ND		mg/kg	1.1	0.25	1
Benzene	0.16		mg/kg	0.056	0.019	1
1,2-Dichloroethane	ND		mg/kg	0.11	0.029	1
Methyl cyclohexane	9.2		mg/kg	0.45	0.068	1
Trichloroethene	ND		mg/kg	0.056	0.015	1
1,2-Dichloropropane	ND		mg/kg	0.11	0.014	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-01 Date Collected: 10/25/21 14:15

Client ID: SB-101 (1.5-2) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.056	0.012	1
1,4-Dioxane	ND		mg/kg	9.0	4.0	1
cis-1,3-Dichloropropene	ND		mg/kg	0.056	0.018	1
Toluene	0.78		mg/kg	0.11	0.061	1
4-Methyl-2-pentanone	ND		mg/kg	1.1	0.14	1
Tetrachloroethene	ND		mg/kg	0.056	0.022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.11	0.031	1
1,3-Dichloropropene, Total	ND		mg/kg	0.056	0.018	1
1,1,2-Trichloroethane	ND		mg/kg	0.11	0.030	1
Dibromochloromethane	ND		mg/kg	0.11	0.016	1
1,2-Dibromoethane	ND		mg/kg	0.056	0.033	1
2-Hexanone	ND		mg/kg	1.1	0.13	1
Chlorobenzene	ND		mg/kg	0.056	0.014	1
Ethylbenzene	0.84		mg/kg	0.11	0.016	1
p/m-Xylene	3.5		mg/kg	0.23	0.063	1
o-Xylene	1.1		mg/kg	0.11	0.033	1
Xylenes, Total	4.6		mg/kg	0.11	0.033	1
Styrene	ND		mg/kg	0.11	0.022	1
Bromoform	ND		mg/kg	0.45	0.028	1
Isopropylbenzene	0.76		mg/kg	0.11	0.012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.056	0.019	1
1,2,4-Trimethylbenzene	30.		mg/kg	0.23	0.038	1
1,3-Dichlorobenzene	ND		mg/kg	0.23	0.017	1
1,4-Dichlorobenzene	ND		mg/kg	0.23	0.019	1
1,2-Dichlorobenzene	ND		mg/kg	0.23	0.016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.34	0.11	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.23	0.031	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.23	0.036	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-01 Date Collected: 10/25/21 14:15

Client ID: SB-101 (1.5-2) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	65.1	J	mg/kg			1
Unknown Benzene	3.40	J	mg/kg			1
Unknown Benzene	5.13	J	mg/kg			1
Unknown	3.78	J	mg/kg			1
Unknown	4.98	J	mg/kg			1
Unknown Alkane	3.94	J	mg/kg			1
Unknown Benzene	3.39	J	mg/kg			1
Unknown Benzene	5.21	J	mg/kg			1
Unknown Alkane	3.86	J	mg/kg			1
Unknown Benzene	4.81	J	mg/kg			1
Unknown Aromatic	4.21	J	mg/kg			1
Decane (C10)	6.07	NJ	mg/kg			1
Unknown	4.10	J	mg/kg			1
Unknown Cyclohexane	3.73	J	mg/kg			1
Unknown	4.76	J	mg/kg			1
Unknown Benzene	3.72	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	**167**	Q	70-130
Dibromofluoromethane	87		70-130

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-02
Client ID: SB-102 (2.5-3)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:20
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/29/21 23:59
Analyst: NLK
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0046	0.0011	1
Vinyl chloride	ND		mg/kg	0.0011	0.00038	1
Bromomethane	ND		mg/kg	0.0023	0.00067	1
Chloroethane	ND		mg/kg	0.0023	0.00052	1
Trichlorofluoromethane	ND		mg/kg	0.0046	0.00080	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00027	1
Carbon disulfide	ND		mg/kg	0.011	0.0052	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0046	0.00080	1
Methylene chloride	ND		mg/kg	0.0057	0.0026	1
Acetone	ND		mg/kg	0.029	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00016	1
Methyl Acetate	ND		mg/kg	0.0046	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00017	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00016	1
Cyclohexane	ND		mg/kg	0.011	0.00062	1
Bromochloromethane	ND		mg/kg	0.0023	0.00024	1
Chloroform	ND		mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00057	0.00019	1
2-Butanone	ND		mg/kg	0.011	0.0025	1
Benzene	0.00026	J	mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00030	1
Methyl cyclohexane	ND		mg/kg	0.0046	0.00069	1
Trichloroethene	ND		mg/kg	0.00057	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-02 Date Collected: 10/25/21 14:20

Client ID: SB-102 (2.5-3) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00057	0.00012	1
1,4-Dioxane	ND		mg/kg	0.092	0.040	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00057	0.00018	1
Toluene	0.00096	J	mg/kg	0.0011	0.00062	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0015	1
Tetrachloroethene	ND		mg/kg	0.00057	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00031	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00057	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00031	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00034	1
2-Hexanone	ND		mg/kg	0.011	0.0014	1
Chlorobenzene	ND		mg/kg	0.00057	0.00014	1
Ethylbenzene	0.00037	J	mg/kg	0.0011	0.00016	1
p/m-Xylene	0.0016	J	mg/kg	0.0023	0.00064	1
o-Xylene	0.00068	J	mg/kg	0.0011	0.00033	1
Xylenes, Total	0.0023	J	mg/kg	0.0011	0.00033	1
Styrene	ND		mg/kg	0.0011	0.00022	1
Bromoform	ND		mg/kg	0.0046	0.00028	1
Isopropylbenzene	0.00015	J	mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00057	0.00019	1
1,2,4-Trimethylbenzene	0.0035		mg/kg	0.0023	0.00038	1
1,3-Dichlorobenzene	ND		mg/kg	0.0023	0.00017	1
1,4-Dichlorobenzene	ND		mg/kg	0.0023	0.00020	1
1,2-Dichlorobenzene	ND		mg/kg	0.0023	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0034	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0023	0.00031	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0023	0.00037	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-02 Date Collected: 10/25/21 14:20

Client ID: SB-102 (2.5-3) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.0568	J	mg/kg			1
Unknown Benzene	0.00311	J	mg/kg			1
Unknown Alkane	0.00411	J	mg/kg			1
Unknown Benzene	0.00269	J	mg/kg			1
Naphthalene	0.00303	NJ	mg/kg			1
Unknown Alkane	0.00758	J	mg/kg			1
Unknown Benzene	0.00389	J	mg/kg			1
Unknown	0.00297	J	mg/kg			1
Unknown	0.00393	J	mg/kg			1
Unknown Alkane	0.00269	J	mg/kg			1
Unknown Benzene	0.00294	J	mg/kg			1
Unknown Aromatic	0.00498	J	mg/kg			1
Decane (C10)	0.00581	NJ	mg/kg			1
Unknown Benzene	0.00319	J	mg/kg			1
Unknown	0.00298	J	mg/kg			1
Unknown Alkane	0.00285	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	92		70-130

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 03:00
Analyst: NLK
Percent Solids: 63%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	2.6	0.24	2
Chloromethane	ND		mg/kg	1.0	0.24	2
Vinyl chloride	ND		mg/kg	0.26	0.088	2
Bromomethane	ND		mg/kg	0.52	0.15	2
Chloroethane	ND		mg/kg	0.52	0.12	2
Trichlorofluoromethane	ND		mg/kg	1.0	0.18	2
1,1-Dichloroethene	ND		mg/kg	0.26	0.062	2
Carbon disulfide	ND		mg/kg	2.6	1.2	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.0	0.18	2
Methylene chloride	ND		mg/kg	1.3	0.60	2
Acetone	ND		mg/kg	2.6	1.2	2
trans-1,2-Dichloroethene	ND		mg/kg	0.39	0.036	2
Methyl Acetate	ND		mg/kg	1.0	0.25	2
Methyl tert butyl ether	ND		mg/kg	0.52	0.052	2
1,1-Dichloroethane	ND		mg/kg	0.26	0.038	2
cis-1,2-Dichloroethene	ND		mg/kg	0.26	0.046	2
1,2-Dichloroethene, Total	ND		mg/kg	0.26	0.036	2
Cyclohexane	19.		mg/kg	2.6	0.14	2
Bromochloromethane	ND		mg/kg	0.52	0.054	2
Chloroform	ND		mg/kg	0.39	0.037	2
Carbon tetrachloride	ND		mg/kg	0.26	0.060	2
1,1,1-Trichloroethane	ND		mg/kg	0.13	0.044	2
2-Butanone	ND		mg/kg	2.6	0.58	2
Benzene	ND		mg/kg	0.13	0.043	2
1,2-Dichloroethane	ND		mg/kg	0.26	0.067	2
Methyl cyclohexane	65.		mg/kg	1.0	0.16	2
Trichloroethene	ND		mg/kg	0.13	0.036	2
1,2-Dichloropropane	ND		mg/kg	0.26	0.033	2

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.13	0.028	2
1,4-Dioxane	ND		mg/kg	21	9.2	2
cis-1,3-Dichloropropene	ND		mg/kg	0.13	0.041	2
Toluene	0.22	J	mg/kg	0.26	0.14	2
4-Methyl-2-pentanone	ND		mg/kg	2.6	0.33	2
Tetrachloroethene	ND		mg/kg	0.13	0.051	2
trans-1,3-Dichloropropene	ND		mg/kg	0.26	0.071	2
1,3-Dichloropropene, Total	ND		mg/kg	0.13	0.041	2
1,1,2-Trichloroethane	ND		mg/kg	0.26	0.070	2
Dibromochloromethane	ND		mg/kg	0.26	0.037	2
1,2-Dibromoethane	ND		mg/kg	0.13	0.077	2
2-Hexanone	ND		mg/kg	2.6	0.31	2
Chlorobenzene	ND		mg/kg	0.13	0.033	2
Ethylbenzene	12.		mg/kg	0.26	0.037	2
p/m-Xylene	9.5		mg/kg	0.52	0.15	2
o-Xylene	2.2		mg/kg	0.26	0.076	2
Xylenes, Total	12.		mg/kg	0.26	0.076	2
Styrene	ND		mg/kg	0.26	0.051	2
Bromoform	ND		mg/kg	1.0	0.064	2
Isopropylbenzene	12.		mg/kg	0.26	0.028	2
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.13	0.043	2
1,2,4-Trimethylbenzene	130	E	mg/kg	0.52	0.087	2
1,3-Dichlorobenzene	ND		mg/kg	0.52	0.039	2
1,4-Dichlorobenzene	0.050	J	mg/kg	0.52	0.045	2
1,2-Dichlorobenzene	0.35	J	mg/kg	0.52	0.038	2
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.78	0.26	2
1,2,4-Trichlorobenzene	ND		mg/kg	0.52	0.071	2
1,2,3-Trichlorobenzene	ND		mg/kg	0.52	0.084	2

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	379.	J	mg/kg			2
Unknown Cyclohexane	26.2	J	mg/kg			2
Unknown Alkane	23.9	J	mg/kg			2
Unknown Cyclohexane	23.0	J	mg/kg			2
Unknown Alkane	18.5	J	mg/kg			2
Unknown Alkane	21.0	J	mg/kg			2
Unknown Cyclohexane	23.1	J	mg/kg			2
Unknown	32.2	J	mg/kg			2
Unknown	24.1	J	mg/kg			2
Cyclohexane, ethyl-	24.1	NJ	mg/kg			2
Unknown	39.0	J	mg/kg			2
Unknown Cyclohexane	29.5	J	mg/kg			2
Unknown Alkane	19.0	J	mg/kg			2
Unknown Alkane	29.3	J	mg/kg			2
Octane, 3-methyl-	26.3	NJ	mg/kg			2
Unknown	20.1	J	mg/kg			2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	120		70-130
4-Bromofluorobenzene	**156**	Q	70-130
Dibromofluoromethane	82		70-130

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-04 D
Client ID: SB-104 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 02:34
Analyst: NLK
Percent Solids: 53%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	3.0	0.27	2
Chloromethane	ND		mg/kg	1.2	0.28	2
Vinyl chloride	ND		mg/kg	0.30	0.099	2
Bromomethane	ND		mg/kg	0.59	0.17	2
Chloroethane	ND		mg/kg	0.59	0.13	2
Trichlorofluoromethane	ND		mg/kg	1.2	0.21	2
1,1-Dichloroethene	ND		mg/kg	0.30	0.070	2
Carbon disulfide	ND		mg/kg	3.0	1.3	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.2	0.20	2
Methylene chloride	ND		mg/kg	1.5	0.68	2
Acetone	ND		mg/kg	3.0	1.4	2
trans-1,2-Dichloroethene	ND		mg/kg	0.44	0.041	2
Methyl Acetate	ND		mg/kg	1.2	0.28	2
Methyl tert butyl ether	ND		mg/kg	0.59	0.060	2
1,1-Dichloroethane	ND		mg/kg	0.30	0.043	2
cis-1,2-Dichloroethene	ND		mg/kg	0.30	0.052	2
1,2-Dichloroethene, Total	ND		mg/kg	0.30	0.041	2
Cyclohexane	6.6		mg/kg	3.0	0.16	2
Bromochloromethane	ND		mg/kg	0.59	0.061	2
Chloroform	ND		mg/kg	0.44	0.042	2
Carbon tetrachloride	ND		mg/kg	0.30	0.068	2
1,1,1-Trichloroethane	ND		mg/kg	0.15	0.050	2
2-Butanone	ND		mg/kg	3.0	0.66	2
Benzene	ND		mg/kg	0.15	0.049	2
1,2-Dichloroethane	ND		mg/kg	0.30	0.076	2
Methyl cyclohexane	24.		mg/kg	1.2	0.18	2
Trichloroethene	ND		mg/kg	0.15	0.041	2
1,2-Dichloropropane	ND		mg/kg	0.30	0.037	2

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-04 D
Client ID: SB-104 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.15	0.032	2
1,4-Dioxane	ND		mg/kg	24	10.	2
cis-1,3-Dichloropropene	ND		mg/kg	0.15	0.047	2
Toluene	ND		mg/kg	0.30	0.16	2
4-Methyl-2-pentanone	ND		mg/kg	3.0	0.38	2
Tetrachloroethene	ND		mg/kg	0.15	0.058	2
trans-1,3-Dichloropropene	ND		mg/kg	0.30	0.081	2
1,3-Dichloropropene, Total	ND		mg/kg	0.15	0.047	2
1,1,2-Trichloroethane	ND		mg/kg	0.30	0.079	2
Dibromochloromethane	ND		mg/kg	0.30	0.042	2
1,2-Dibromoethane	ND		mg/kg	0.15	0.087	2
2-Hexanone	ND		mg/kg	3.0	0.35	2
Chlorobenzene	ND		mg/kg	0.15	0.038	2
Ethylbenzene	0.15	J	mg/kg	0.30	0.042	2
p/m-Xylene	0.56	J	mg/kg	0.59	0.17	2
o-Xylene	0.31		mg/kg	0.30	0.086	2
Xylenes, Total	0.87	J	mg/kg	0.30	0.086	2
Styrene	ND		mg/kg	0.30	0.058	2
Bromoform	ND		mg/kg	1.2	0.073	2
Isopropylbenzene	0.33		mg/kg	0.30	0.032	2
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.15	0.049	2
1,2,4-Trimethylbenzene	7.3		mg/kg	0.59	0.099	2
1,3-Dichlorobenzene	ND		mg/kg	0.59	0.044	2
1,4-Dichlorobenzene	ND		mg/kg	0.59	0.051	2
1,2-Dichlorobenzene	ND		mg/kg	0.59	0.043	2
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.89	0.30	2
1,2,4-Trichlorobenzene	ND		mg/kg	0.59	0.081	2
1,2,3-Trichlorobenzene	ND		mg/kg	0.59	0.095	2

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-04 D
Client ID: SB-104 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	172.	J	mg/kg			2
Unknown	5.93	J	mg/kg			2
Unknown	4.51	J	mg/kg			2
Unknown	5.93	J	mg/kg			2
Unknown	7.88	J	mg/kg			2
Undecane	17.7	NJ	mg/kg			2
Unknown Alkane	58.7	J	mg/kg			2
Unknown	10.9	J	mg/kg			2
Unknown Alkane	4.51	J	mg/kg			2
Octane	10.7	NJ	mg/kg			2
Heptane, 2-methyl-	7.08	NJ	mg/kg			2
Unknown	7.33	J	mg/kg			2
Unknown Alkane	6.36	J	mg/kg			2
Unknown Cyclohexane	6.56	J	mg/kg			2
Unknown Alkane	12.6	J	mg/kg			2
Heptane	5.84	NJ	mg/kg			2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	**258**	Q	70-130
Dibromofluoromethane	88		70-130

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05
Client ID: SB-105 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 01:17
Analyst: NLK
Percent Solids: 55%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	1.5	0.13	1
Chloromethane	ND		mg/kg	0.59	0.14	1
Vinyl chloride	ND		mg/kg	0.15	0.049	1
Bromomethane	ND		mg/kg	0.29	0.085	1
Chloroethane	ND		mg/kg	0.29	0.066	1
Trichlorofluoromethane	ND		mg/kg	0.59	0.10	1
1,1-Dichloroethene	ND		mg/kg	0.15	0.035	1
Carbon disulfide	ND		mg/kg	1.5	0.67	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.59	0.10	1
Methylene chloride	ND		mg/kg	0.73	0.34	1
Acetone	ND		mg/kg	1.5	0.71	1
trans-1,2-Dichloroethene	ND		mg/kg	0.22	0.020	1
Methyl Acetate	ND		mg/kg	0.59	0.14	1
Methyl tert butyl ether	ND		mg/kg	0.29	0.030	1
1,1-Dichloroethane	ND		mg/kg	0.15	0.021	1
cis-1,2-Dichloroethene	ND		mg/kg	0.15	0.026	1
1,2-Dichloroethene, Total	ND		mg/kg	0.15	0.020	1
Cyclohexane	1.2	J	mg/kg	1.5	0.080	1
Bromochloromethane	ND		mg/kg	0.29	0.030	1
Chloroform	ND		mg/kg	0.22	0.020	1
Carbon tetrachloride	ND		mg/kg	0.15	0.034	1
1,1,1-Trichloroethane	ND		mg/kg	0.073	0.024	1
2-Butanone	ND		mg/kg	1.5	0.33	1
Benzene	1.8		mg/kg	0.073	0.024	1
1,2-Dichloroethane	ND		mg/kg	0.15	0.038	1
Methyl cyclohexane	1.8		mg/kg	0.59	0.088	1
Trichloroethene	ND		mg/kg	0.073	0.020	1
1,2-Dichloropropane	ND		mg/kg	0.15	0.018	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05 Date Collected: 10/25/21 14:45

Client ID: SB-105 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.073	0.016	1
1,4-Dioxane	ND		mg/kg	12	5.2	1
cis-1,3-Dichloropropene	ND		mg/kg	0.073	0.023	1
Toluene	5.5		mg/kg	0.15	0.080	1
4-Methyl-2-pentanone	ND		mg/kg	1.5	0.19	1
Tetrachloroethene	ND		mg/kg	0.073	0.029	1
trans-1,3-Dichloropropene	ND		mg/kg	0.15	0.040	1
1,3-Dichloropropene, Total	ND		mg/kg	0.073	0.023	1
1,1,2-Trichloroethane	ND		mg/kg	0.15	0.039	1
Dibromochloromethane	ND		mg/kg	0.15	0.020	1
1,2-Dibromoethane	ND		mg/kg	0.073	0.043	1
2-Hexanone	ND		mg/kg	1.5	0.17	1
Chlorobenzene	ND		mg/kg	0.073	0.019	1
Ethylbenzene	8.3		mg/kg	0.15	0.021	1
p/m-Xylene	20.		mg/kg	0.29	0.082	1
o-Xylene	4.0		mg/kg	0.15	0.043	1
Xylenes, Total	24.		mg/kg	0.15	0.043	1
Styrene	ND		mg/kg	0.15	0.029	1
Bromoform	ND		mg/kg	0.59	0.036	1
Isopropylbenzene	4.4		mg/kg	0.15	0.016	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.073	0.024	1
1,2,4-Trimethylbenzene	38.		mg/kg	0.29	0.049	1
1,3-Dichlorobenzene	ND		mg/kg	0.29	0.022	1
1,4-Dichlorobenzene	ND		mg/kg	0.29	0.025	1
1,2-Dichlorobenzene	ND		mg/kg	0.29	0.021	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.44	0.15	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.29	0.040	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.29	0.047	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05 Date Collected: 10/25/21 14:45

Client ID: SB-105 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	96.4	J	mg/kg			1
Unknown Benzene	3.80	J	mg/kg			1
Unknown Alkane	6.67	J	mg/kg			1
Unknown	10.7	J	mg/kg			1
Unknown Benzene	8.62	J	mg/kg			1
Unknown Benzene	12.7	J	mg/kg			1
Octane, 3-methyl-	7.18	NJ	mg/kg			1
Unknown Alkane	5.06	J	mg/kg			1
Unknown Benzene	3.94	J	mg/kg			1
Unknown Benzene	5.20	J	mg/kg			1
Unknown Benzene	6.95	J	mg/kg			1
Benzene, Propyl-	5.25	NJ	mg/kg			1
Unknown Aromatic	3.37	J	mg/kg			1
Unknown Aromatic	7.43	J	mg/kg			1
Hexane, 2,3-dimethyl-	4.77	NJ	mg/kg			1
Naphthalene	4.76	NJ	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	89		70-130

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-06
Client ID: SB-106 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:55
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 04:17
Analyst: NLK
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.017	0.0016	1
Chloromethane	ND		mg/kg	0.0069	0.0016	1
Vinyl chloride	ND		mg/kg	0.0017	0.00058	1
Bromomethane	ND		mg/kg	0.0034	0.0010	1
Chloroethane	ND		mg/kg	0.0034	0.00078	1
Trichlorofluoromethane	ND		mg/kg	0.0069	0.0012	1
1,1-Dichloroethene	ND		mg/kg	0.0017	0.00041	1
Carbon disulfide	ND		mg/kg	0.017	0.0078	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0069	0.0012	1
Methylene chloride	ND		mg/kg	0.0086	0.0039	1
Acetone	0.038	J	mg/kg	0.043	0.017	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0026	0.00024	1
Methyl Acetate	ND		mg/kg	0.0069	0.0016	1
Methyl tert butyl ether	0.00049	J	mg/kg	0.0034	0.00035	1
1,1-Dichloroethane	ND		mg/kg	0.0017	0.00025	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00030	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0017	0.00024	1
Cyclohexane	0.0043	J	mg/kg	0.017	0.00094	1
Bromochloromethane	ND		mg/kg	0.0034	0.00035	1
Chloroform	ND		mg/kg	0.0026	0.00024	1
Carbon tetrachloride	ND		mg/kg	0.0017	0.00040	1
1,1,1-Trichloroethane	ND		mg/kg	0.00086	0.00029	1
2-Butanone	ND		mg/kg	0.017	0.0038	1
Benzene	0.0094		mg/kg	0.00086	0.00029	1
1,2-Dichloroethane	ND		mg/kg	0.0017	0.00044	1
Methyl cyclohexane	0.0014	J	mg/kg	0.0069	0.0010	1
Trichloroethene	ND		mg/kg	0.00086	0.00024	1
1,2-Dichloropropane	ND		mg/kg	0.0017	0.00022	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-06 Date Collected: 10/25/21 14:55

Client ID: SB-106 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00086	0.00019	1
1,4-Dioxane	ND		mg/kg	0.14	0.060	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00086	0.00027	1
Toluene	0.017		mg/kg	0.0017	0.00094	1
4-Methyl-2-pentanone	ND		mg/kg	0.017	0.0022	1
Tetrachloroethene	ND		mg/kg	0.00086	0.00034	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0017	0.00047	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00086	0.00027	1
1,1,2-Trichloroethane	ND		mg/kg	0.0017	0.00046	1
Dibromochloromethane	ND		mg/kg	0.0017	0.00024	1
1,2-Dibromoethane	ND		mg/kg	0.00086	0.00050	1
2-Hexanone	ND		mg/kg	0.017	0.0020	1
Chlorobenzene	ND		mg/kg	0.00086	0.00022	1
Ethylbenzene	0.0054		mg/kg	0.0017	0.00024	1
p/m-Xylene	0.019		mg/kg	0.0034	0.00096	1
o-Xylene	0.028		mg/kg	0.0017	0.00050	1
Xylenes, Total	0.047		mg/kg	0.0017	0.00050	1
Styrene	0.00090	J	mg/kg	0.0017	0.00034	1
Bromoform	ND		mg/kg	0.0069	0.00042	1
Isopropylbenzene	0.0026		mg/kg	0.0017	0.00019	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00086	0.00029	1
1,2,4-Trimethylbenzene	0.017		mg/kg	0.0034	0.00058	1
1,3-Dichlorobenzene	ND		mg/kg	0.0034	0.00026	1
1,4-Dichlorobenzene	ND		mg/kg	0.0034	0.00029	1
1,2-Dichlorobenzene	ND		mg/kg	0.0034	0.00025	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0052	0.0017	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0034	0.00047	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0034	0.00056	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-06 Date Collected: 10/25/21 14:55

Client ID: SB-106 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.493	J	mg/kg			1
Indane	0.0293	NJ	mg/kg			1
Unknown Aromatic	0.0207	J	mg/kg			1
Unknown Aromatic	0.0158	J	mg/kg			1
Unknown Aromatic	0.0453	J	mg/kg			1
Unknown Benzene	0.0111	J	mg/kg			1
Unknown Benzene	0.00926	J	mg/kg			1
Unknown Benzene	0.00879	J	mg/kg			1
Unknown Benzene	0.00958	J	mg/kg			1
Naphthalene	0.276	NJ	mg/kg			1
Unknown	0.00915	J	mg/kg			1
Unknown	0.0106	J	mg/kg			1
Unknown Benzene	0.0104	J	mg/kg			1
Unknown Aromatic	0.0370	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	87		70-130

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-07
Client ID: SB-107 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 00:25
Analyst: NLK
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.021	0.0019	1
Chloromethane	ND		mg/kg	0.0085	0.0020	1
Vinyl chloride	ND		mg/kg	0.0021	0.00071	1
Bromomethane	ND		mg/kg	0.0042	0.0012	1
Chloroethane	ND		mg/kg	0.0042	0.00096	1
Trichlorofluoromethane	ND		mg/kg	0.0085	0.0015	1
1,1-Dichloroethene	ND		mg/kg	0.0021	0.00050	1
Carbon disulfide	ND		mg/kg	0.021	0.0096	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0085	0.0015	1
Methylene chloride	ND		mg/kg	0.011	0.0048	1
Acetone	0.079		mg/kg	0.053	0.021	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0032	0.00029	1
Methyl Acetate	ND		mg/kg	0.0085	0.0020	1
Methyl tert butyl ether	ND		mg/kg	0.0042	0.00043	1
1,1-Dichloroethane	ND		mg/kg	0.0021	0.00031	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00037	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0021	0.00029	1
Cyclohexane	ND		mg/kg	0.021	0.0012	1
Bromochloromethane	ND		mg/kg	0.0042	0.00044	1
Chloroform	ND		mg/kg	0.0032	0.00030	1
Carbon tetrachloride	ND		mg/kg	0.0021	0.00049	1
1,1,1-Trichloroethane	ND		mg/kg	0.0011	0.00035	1
2-Butanone	ND		mg/kg	0.021	0.0047	1
Benzene	ND		mg/kg	0.0011	0.00035	1
1,2-Dichloroethane	ND		mg/kg	0.0021	0.00054	1
Methyl cyclohexane	ND		mg/kg	0.0085	0.0013	1
Trichloroethene	ND		mg/kg	0.0011	0.00029	1
1,2-Dichloropropane	ND		mg/kg	0.0021	0.00026	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-07 Date Collected: 10/25/21 15:00

Client ID: SB-107 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0011	0.00023	1
1,4-Dioxane	ND		mg/kg	0.17	0.074	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00034	1
Toluene	ND		mg/kg	0.0021	0.0012	1
4-Methyl-2-pentanone	ND		mg/kg	0.021	0.0027	1
Tetrachloroethene	ND		mg/kg	0.0011	0.00042	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0021	0.00058	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0011	0.00034	1
1,1,2-Trichloroethane	ND		mg/kg	0.0021	0.00057	1
Dibromochloromethane	ND		mg/kg	0.0021	0.00030	1
1,2-Dibromoethane	ND		mg/kg	0.0011	0.00062	1
2-Hexanone	ND		mg/kg	0.021	0.0025	1
Chlorobenzene	ND		mg/kg	0.0011	0.00027	1
Ethylbenzene	ND		mg/kg	0.0021	0.00030	1
p/m-Xylene	ND		mg/kg	0.0042	0.0012	1
o-Xylene	ND		mg/kg	0.0021	0.00062	1
Xylenes, Total	ND		mg/kg	0.0021	0.00062	1
Styrene	ND		mg/kg	0.0021	0.00042	1
Bromoform	ND		mg/kg	0.0085	0.00052	1
Isopropylbenzene	ND		mg/kg	0.0021	0.00023	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0011	0.00035	1
1,2,4-Trimethylbenzene	0.00076	J	mg/kg	0.0042	0.00071	1
1,3-Dichlorobenzene	ND		mg/kg	0.0042	0.00031	1
1,4-Dichlorobenzene	ND		mg/kg	0.0042	0.00036	1
1,2-Dichlorobenzene	ND		mg/kg	0.0042	0.00030	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0064	0.0021	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0042	0.00058	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0042	0.00068	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	mg/kg	1

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-07 Date Collected: 10/25/21 15:00

Client ID: SB-107 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	93		70-130

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 20:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,06-07 Batch: WG1565246-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 20:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,06-07 Batch: WG1565246-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	0.00061	J	mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 20:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,06-07 Batch: WG1565246-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	91		70-130

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 20:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,03-05 Batch: WG1565247-5					
Dichlorodifluoromethane	ND		mg/kg	0.50	0.046
Chloromethane	ND		mg/kg	0.20	0.047
Vinyl chloride	ND		mg/kg	0.050	0.017
Bromomethane	ND		mg/kg	0.10	0.029
Chloroethane	ND		mg/kg	0.10	0.023
Trichlorofluoromethane	ND		mg/kg	0.20	0.035
1,1-Dichloroethene	ND		mg/kg	0.050	0.012
Carbon disulfide	ND		mg/kg	0.50	0.23
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.20	0.035
Methylene chloride	ND		mg/kg	0.25	0.11
Acetone	ND		mg/kg	0.50	0.24
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.0068
Methyl Acetate	ND		mg/kg	0.20	0.048
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
1,1-Dichloroethane	ND		mg/kg	0.050	0.0072
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.0088
1,2-Dichloroethene, Total	ND		mg/kg	0.050	0.0068
Cyclohexane	ND		mg/kg	0.50	0.027
Bromochloromethane	ND		mg/kg	0.10	0.010
Chloroform	ND		mg/kg	0.075	0.0070
Carbon tetrachloride	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.025	0.0084
2-Butanone	ND		mg/kg	0.50	0.11
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Methyl cyclohexane	ND		mg/kg	0.20	0.030
Trichloroethene	ND		mg/kg	0.025	0.0068
1,2-Dichloropropane	ND		mg/kg	0.050	0.0062
Bromodichloromethane	ND		mg/kg	0.025	0.0054

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 20:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,03-05 Batch: WG1565247-5					
1,4-Dioxane	ND		mg/kg	4.0	1.8
cis-1,3-Dichloropropene	ND		mg/kg	0.025	0.0079
Toluene	0.030	J	mg/kg	0.050	0.027
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.064
Tetrachloroethene	ND		mg/kg	0.025	0.0098
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.014
1,3-Dichloropropene, Total	ND		mg/kg	0.025	0.0079
1,1,2-Trichloroethane	ND		mg/kg	0.050	0.013
Dibromochloromethane	ND		mg/kg	0.050	0.0070
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
2-Hexanone	ND		mg/kg	0.50	0.059
Chlorobenzene	ND		mg/kg	0.025	0.0064
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Styrene	ND		mg/kg	0.050	0.0098
Bromoform	ND		mg/kg	0.20	0.012
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.025	0.0083
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017
1,3-Dichlorobenzene	ND		mg/kg	0.10	0.0074
1,4-Dichlorobenzene	ND		mg/kg	0.10	0.0086
1,2-Dichlorobenzene	ND		mg/kg	0.10	0.0072
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.050
1,2,4-Trichlorobenzene	ND		mg/kg	0.10	0.014
1,2,3-Trichlorobenzene	ND		mg/kg	0.10	0.016

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 20:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,03-05 Batch: WG1565247-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	91		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,06-07 Batch: WG1565246-3 WG1565246-4								
Dichlorodifluoromethane	84		85		30-146	1		30
Chloromethane	105		107		52-130	2		30
Vinyl chloride	82		84		67-130	2		30
Bromomethane	57		58		57-147	2		30
Chloroethane	69		72		50-151	4		30
Trichlorofluoromethane	75		77		70-139	3		30
1,1-Dichloroethene	83		86		65-135	4		30
Carbon disulfide	69		70		59-130	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	87		90		50-139	3		30
Methylene chloride	76		78		70-130	3		30
Acetone	96		100		54-140	4		30
trans-1,2-Dichloroethene	84		84		70-130	0		30
Methyl Acetate	93		98		51-146	5		30
Methyl tert butyl ether	75		77		66-130	3		30
1,1-Dichloroethane	95		99		70-130	4		30
cis-1,2-Dichloroethene	81		84		70-130	4		30
Cyclohexane	105		109		59-142	4		30
Bromochloromethane	84		88		70-130	5		30
Chloroform	78		81		70-130	4		30
Carbon tetrachloride	83		86		70-130	4		30
1,1,1-Trichloroethane	82		84		70-130	2		30
2-Butanone	73		83		70-130	13		30
Benzene	81		83		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,06-07 Batch: WG1565246-3 WG1565246-4								
1,2-Dichloroethane	88		91		70-130	3		30
Methyl cyclohexane	80		82		70-130	2		30
Trichloroethene	81		83		70-130	2		30
1,2-Dichloropropane	97		100		70-130	3		30
Bromodichloromethane	80		81		70-130	1		30
cis-1,3-Dichloropropene	86		89		70-130	3		30
Toluene	82		84		70-130	2		30
4-Methyl-2-pentanone	105		106		70-130	1		30
Tetrachloroethene	88		90		70-130	2		30
trans-1,3-Dichloropropene	87		90		70-130	3		30
1,1,2-Trichloroethane	85		88		70-130	3		30
Dibromochloromethane	90		94		70-130	4		30
1,2-Dibromoethane	83		85		70-130	2		30
2-Hexanone	96		99		70-130	3		30
Chlorobenzene	84		86		70-130	2		30
Ethylbenzene	82		84		70-130	2		30
p/m-Xylene	85		87		70-130	2		30
o-Xylene	85		88		70-130	3		30
Styrene	84		86		70-130	2		30
Bromoform	95		97		70-130	2		30
Isopropylbenzene	88		90		70-130	2		30
1,1,2,2-Tetrachloroethane	88		91		70-130	3		30
1,2,4-Trimethylbenzene	87		88		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678
Lab Number: L2158500
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,06-07 Batch: WG1565246-3 WG1565246-4								
1,3-Dichlorobenzene	91		92		70-130	1		30
1,4-Dichlorobenzene	88		90		70-130	2		30
1,2-Dichlorobenzene	92		94		70-130	2		30
1,2-Dibromo-3-chloropropane	81		86		68-130	6		30
1,2,4-Trichlorobenzene	95		96		70-130	1		30
1,2,3-Trichlorobenzene	94		96		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	93		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1565247-3 WG1565247-4								
Dichlorodifluoromethane	84		85		30-146	1		30
Chloromethane	105		107		52-130	2		30
Vinyl chloride	82		84		67-130	2		30
Bromomethane	57		58		57-147	2		30
Chloroethane	69		72		50-151	4		30
Trichlorofluoromethane	75		77		70-139	3		30
1,1-Dichloroethene	83		86		65-135	4		30
Carbon disulfide	69		70		59-130	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	87		90		50-139	3		30
Methylene chloride	76		78		70-130	3		30
Acetone	96		100		54-140	4		30
trans-1,2-Dichloroethene	84		84		70-130	0		30
Methyl Acetate	93		98		51-146	5		30
Methyl tert butyl ether	75		77		66-130	3		30
1,1-Dichloroethane	95		99		70-130	4		30
cis-1,2-Dichloroethene	81		84		70-130	4		30
Cyclohexane	105		109		59-142	4		30
Bromochloromethane	84		88		70-130	5		30
Chloroform	78		81		70-130	4		30
Carbon tetrachloride	83		86		70-130	4		30
1,1,1-Trichloroethane	82		84		70-130	2		30
2-Butanone	73		83		70-130	13		30
Benzene	81		83		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1565247-3 WG1565247-4								
1,2-Dichloroethane	88		91		70-130	3		30
Methyl cyclohexane	80		82		70-130	2		30
Trichloroethene	81		83		70-130	2		30
1,2-Dichloropropane	97		100		70-130	3		30
Bromodichloromethane	80		81		70-130	1		30
cis-1,3-Dichloropropene	86		89		70-130	3		30
Toluene	82		84		70-130	2		30
4-Methyl-2-pentanone	105		106		70-130	1		30
Tetrachloroethene	88		90		70-130	2		30
trans-1,3-Dichloropropene	87		90		70-130	3		30
1,1,2-Trichloroethane	85		88		70-130	3		30
Dibromochloromethane	90		94		70-130	4		30
1,2-Dibromoethane	83		85		70-130	2		30
2-Hexanone	96		99		70-130	3		30
Chlorobenzene	84		86		70-130	2		30
Ethylbenzene	82		84		70-130	2		30
p/m-Xylene	85		87		70-130	2		30
o-Xylene	85		88		70-130	3		30
Styrene	84		86		70-130	2		30
Bromoform	95		97		70-130	2		30
Isopropylbenzene	88		90		70-130	2		30
1,1,2,2-Tetrachloroethane	88		91		70-130	3		30
1,2,4-Trimethylbenzene	87		88		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.

Project Number: 30108678

Lab Number: L2158500

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1565247-3 WG1565247-4								
1,3-Dichlorobenzene	91		92		70-130	1		30
1,4-Dichlorobenzene	88		90		70-130	2		30
1,2-Dichlorobenzene	92		94		70-130	2		30
1,2-Dibromo-3-chloropropane	81		86		68-130	6		30
1,2,4-Trichlorobenzene	95		96		70-130	1		30
1,2,3-Trichlorobenzene	94		96		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	93		93		70-130

SEMIVOLATILES

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/05/21 10:59
Analyst: WR
Percent Solids: 63%

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	1.7	0.35	5
Phenol	ND		mg/kg	1.3	0.19	5
2-Chlorophenol	ND		mg/kg	1.3	0.15	5
2-Methylphenol	ND		mg/kg	1.3	0.20	5
Bis(2-chloroisopropyl)ether	ND		mg/kg	1.5	0.22	5
Acetophenone	ND		mg/kg	1.3	0.16	5
1,4-Dioxane	ND		mg/kg	0.19	0.059	5
3-Methylphenol/4-Methylphenol	ND		mg/kg	1.8	0.20	5
Hexachloroethane	ND		mg/kg	1.0	0.21	5
Nitrobenzene	ND		mg/kg	1.2	0.19	5
Isophorone	ND		mg/kg	1.2	0.17	5
2-Nitrophenol	ND		mg/kg	2.8	0.48	5
2,4-Dimethylphenol	ND		mg/kg	1.3	0.42	5
Bis(2-chloroethoxy)methane	ND		mg/kg	1.4	0.13	5
2,4-Dichlorophenol	ND		mg/kg	1.2	0.21	5
Naphthalene	13.		mg/kg	1.3	0.16	5
4-Chloroaniline	ND		mg/kg	1.3	0.23	5
Hexachlorobutadiene	ND		mg/kg	1.3	0.19	5
Caprolactam	ND		mg/kg	1.3	0.39	5
p-Chloro-m-cresol	ND		mg/kg	1.3	0.19	5
2-Methylnaphthalene	23.		mg/kg	1.5	0.16	5
Hexachlorocyclopentadiene	ND		mg/kg	3.7	1.2	5
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	1.3	0.13	5
2,4,6-Trichlorophenol	ND		mg/kg	0.77	0.24	5
2,4,5-Trichlorophenol	ND		mg/kg	1.3	0.25	5
Biphenyl	2.8	J	mg/kg	2.9	0.30	5
2-Chloronaphthalene	ND		mg/kg	1.3	0.13	5
2-Nitroaniline	ND		mg/kg	1.3	0.25	5

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	1.3	0.27	5
2,6-Dinitrotoluene	ND		mg/kg	1.3	0.22	5
Acenaphthylene	ND		mg/kg	1.0	0.20	5
3-Nitroaniline	ND		mg/kg	1.3	0.24	5
Acenaphthene	3.1		mg/kg	1.0	0.13	5
2,4-Dinitrophenol	ND		mg/kg	6.2	0.60	5
4-Nitrophenol	ND		mg/kg	1.8	0.52	5
2,4-Dinitrotoluene	ND		mg/kg	1.3	0.26	5
Dibenzofuran	1.7		mg/kg	1.3	0.12	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	1.3	0.26	5
Diethyl phthalate	ND		mg/kg	1.3	0.12	5
Fluorene	2.8		mg/kg	1.3	0.12	5
4-Chlorophenyl phenyl ether	ND		mg/kg	1.3	0.14	5
4-Nitroaniline	ND		mg/kg	1.3	0.53	5
4,6-Dinitro-o-cresol	ND		mg/kg	3.3	0.62	5
NDPA/DPA	ND		mg/kg	1.0	0.15	5
4-Bromophenyl phenyl ether	ND		mg/kg	1.3	0.20	5
Hexachlorobenzene	ND		mg/kg	0.77	0.14	5
Pentachlorophenol	ND		mg/kg	1.0	0.28	5
Atrazine	ND		mg/kg	1.0	0.45	5
Phenanthrene	8.4		mg/kg	0.77	0.16	5
Anthracene	1.1		mg/kg	0.77	0.25	5
Carbazole	ND		mg/kg	1.3	0.12	5
Di-n-butylphthalate	ND		mg/kg	1.3	0.24	5
Fluoranthene	2.6		mg/kg	0.77	0.15	5
Pyrene	2.2		mg/kg	0.77	0.13	5
Butyl benzyl phthalate	ND		mg/kg	1.3	0.32	5
3,3'-Dichlorobenzidine	ND		mg/kg	1.3	0.34	5
Benzo(a)anthracene	0.62	J	mg/kg	0.77	0.14	5
Chrysene	0.53	J	mg/kg	0.77	0.13	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	1.3	0.44	5
Di-n-octylphthalate	ND		mg/kg	1.3	0.44	5
Benzo(b)fluoranthene	0.47	J	mg/kg	0.77	0.22	5
Benzo(k)fluoranthene	0.20	J	mg/kg	0.77	0.20	5
Benzo(a)pyrene	0.36	J	mg/kg	1.0	0.31	5
Indeno(1,2,3-cd)pyrene	0.22	J	mg/kg	1.0	0.18	5
Dibenzo(a,h)anthracene	ND		mg/kg	0.77	0.15	5

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.20	J	mg/kg	1.0	0.15	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	52		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	46		18-120

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03 D
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 11/05/21 14:02
Analyst: WR
Percent Solids: 63%

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	1.2		mg/kg	0.26	0.072	5
n-Nitrosodi-n-propylamine	ND		mg/kg	0.26	0.067	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	49		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	41		18-120

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05
Client ID: SB-105 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 11/05/21 12:56
Analyst: WR
Percent Solids: 55%

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.060	0.017	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.060	0.016	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		25-120
Phenol-d6	57		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	31		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	29		18-120

Project Name: ALLIANCE-S. 51ST ST.
Lab Number: L2158500
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05 D
Client ID: SB-105 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/05/21 11:46
Analyst: WR
Percent Solids: 55%

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	2.0	0.40	5
Phenol	ND		mg/kg	1.5	0.23	5
2-Chlorophenol	ND		mg/kg	1.5	0.18	5
2-Methylphenol	ND		mg/kg	1.5	0.23	5
Bis(2-chloroisopropyl)ether	ND		mg/kg	1.8	0.26	5
Acetophenone	ND		mg/kg	1.5	0.18	5
1,4-Dioxane	ND		mg/kg	0.22	0.068	5
3-Methylphenol/4-Methylphenol	ND		mg/kg	2.2	0.23	5
Hexachloroethane	ND		mg/kg	1.2	0.24	5
Nitrobenzene	ND		mg/kg	1.3	0.22	5
Isophorone	ND		mg/kg	1.3	0.19	5
2-Nitrophenol	ND		mg/kg	3.2	0.56	5
2,4-Dimethylphenol	ND		mg/kg	1.5	0.49	5
Bis(2-chloroethoxy)methane	ND		mg/kg	1.6	0.15	5
2,4-Dichlorophenol	ND		mg/kg	1.3	0.24	5
Naphthalene	7.5		mg/kg	1.5	0.18	5
4-Chloroaniline	ND		mg/kg	1.5	0.27	5
Hexachlorobutadiene	ND		mg/kg	1.5	0.22	5
Caprolactam	ND		mg/kg	1.5	0.46	5
p-Chloro-m-cresol	ND		mg/kg	1.5	0.22	5
2-Methylnaphthalene	19.		mg/kg	1.8	0.18	5
Hexachlorocyclopentadiene	ND		mg/kg	4.3	1.4	5
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	1.5	0.16	5
2,4,6-Trichlorophenol	ND		mg/kg	0.90	0.28	5
2,4,5-Trichlorophenol	ND		mg/kg	1.5	0.29	5
Biphenyl	0.82	J	mg/kg	3.4	0.35	5
2-Chloronaphthalene	ND		mg/kg	1.5	0.15	5
2-Nitroaniline	ND		mg/kg	1.5	0.29	5

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05 D
Client ID: SB-105 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	1.5	0.31	5
2,6-Dinitrotoluene	ND		mg/kg	1.5	0.26	5
Acenaphthylene	ND		mg/kg	1.2	0.23	5
3-Nitroaniline	ND		mg/kg	1.5	0.28	5
Acenaphthene	3.1		mg/kg	1.2	0.16	5
2,4-Dinitrophenol	ND		mg/kg	7.2	0.70	5
4-Nitrophenol	ND		mg/kg	2.1	0.61	5
2,4-Dinitrotoluene	ND		mg/kg	1.5	0.30	5
Dibenzofuran	1.4	J	mg/kg	1.5	0.14	5
2,3,4,6-Tetrachlorophenol	ND		mg/kg	1.5	0.30	5
Diethyl phthalate	ND		mg/kg	1.5	0.14	5
Fluorene	1.6		mg/kg	1.5	0.14	5
4-Chlorophenyl phenyl ether	ND		mg/kg	1.5	0.16	5
4-Nitroaniline	ND		mg/kg	1.5	0.62	5
4,6-Dinitro-o-cresol	ND		mg/kg	3.9	0.72	5
NDPA/DPA	ND		mg/kg	1.2	0.17	5
4-Bromophenyl phenyl ether	ND		mg/kg	1.5	0.23	5
Hexachlorobenzene	ND		mg/kg	0.90	0.17	5
Pentachlorophenol	ND		mg/kg	1.2	0.33	5
Atrazine	ND		mg/kg	1.2	0.52	5
Phenanthrene	3.1		mg/kg	0.90	0.18	5
Anthracene	0.52	J	mg/kg	0.90	0.29	5
Carbazole	ND		mg/kg	1.5	0.14	5
Di-n-butylphthalate	ND		mg/kg	1.5	0.28	5
Fluoranthene	0.71	J	mg/kg	0.90	0.17	5
Pyrene	0.58	J	mg/kg	0.90	0.15	5
Butyl benzyl phthalate	ND		mg/kg	1.5	0.38	5
3,3'-Dichlorobenzidine	ND		mg/kg	1.5	0.40	5
Benzo(a)anthracene	0.18	J	mg/kg	0.90	0.17	5
Chrysene	ND		mg/kg	0.90	0.16	5
Bis(2-ethylhexyl)phthalate	ND		mg/kg	1.5	0.52	5
Di-n-octylphthalate	ND		mg/kg	1.5	0.51	5
Benzo(b)fluoranthene	ND		mg/kg	0.90	0.25	5
Benzo(k)fluoranthene	ND		mg/kg	0.90	0.24	5
Benzo(a)pyrene	ND		mg/kg	1.2	0.36	5
Indeno(1,2,3-cd)pyrene	ND		mg/kg	1.2	0.21	5
Dibenzo(a,h)anthracene	ND		mg/kg	0.90	0.17	5

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05 D
Client ID: SB-105 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	ND		mg/kg	1.2	0.18	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	43		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	36		18-120

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/21 22:35
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05 Batch: WG1567282-1					
Benzaldehyde	ND		mg/kg	0.21	0.044
Phenol	ND		mg/kg	0.16	0.024
2-Chlorophenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.19	0.028
Acetophenone	ND		mg/kg	0.16	0.020
1,4-Dioxane	ND		mg/kg	0.024	0.0074
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.23	0.025
Hexachloroethane	ND		mg/kg	0.13	0.026
Nitrobenzene	ND		mg/kg	0.14	0.024
Isophorone	ND		mg/kg	0.14	0.021
2-Nitrophenol	ND		mg/kg	0.35	0.061
2,4-Dimethylphenol	ND		mg/kg	0.16	0.053
Bis(2-chloroethoxy)methane	ND		mg/kg	0.17	0.016
2,4-Dichlorophenol	ND		mg/kg	0.14	0.026
Naphthalene	ND		mg/kg	0.16	0.020
4-Chloroaniline	ND		mg/kg	0.16	0.029
Hexachlorobutadiene	ND		mg/kg	0.16	0.024
Caprolactam	ND		mg/kg	0.16	0.049
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Methylnaphthalene	ND		mg/kg	0.19	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.46	0.15
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.097	0.031
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Biphenyl	ND		mg/kg	0.37	0.038
2-Chloronaphthalene	ND		mg/kg	0.16	0.016
2-Nitroaniline	ND		mg/kg	0.16	0.031
Dimethyl phthalate	ND		mg/kg	0.16	0.034

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/21 22:35
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05 Batch: WG1567282-1					
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028
Acenaphthylene	ND		mg/kg	0.13	0.025
3-Nitroaniline	ND		mg/kg	0.16	0.030
Acenaphthene	ND		mg/kg	0.13	0.017
2,4-Dinitrophenol	ND		mg/kg	0.78	0.076
4-Nitrophenol	ND		mg/kg	0.23	0.066
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.032
Dibenzofuran	ND		mg/kg	0.16	0.015
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033
Diethyl phthalate	ND		mg/kg	0.16	0.015
Fluorene	ND		mg/kg	0.16	0.016
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.017
4-Nitroaniline	ND		mg/kg	0.16	0.067
4,6-Dinitro-o-cresol	ND		mg/kg	0.42	0.078
NDPA/DPA	ND		mg/kg	0.13	0.018
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025
Hexachlorobenzene	ND		mg/kg	0.097	0.018
Pentachlorophenol	ND		mg/kg	0.13	0.036
Atrazine	ND		mg/kg	0.13	0.057
Phenanthrene	ND		mg/kg	0.097	0.020
Anthracene	ND		mg/kg	0.097	0.032
Carbazole	ND		mg/kg	0.16	0.016
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Fluoranthene	ND		mg/kg	0.097	0.019
Pyrene	ND		mg/kg	0.097	0.016
Butyl benzyl phthalate	ND		mg/kg	0.16	0.041
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.043
Benzo(a)anthracene	ND		mg/kg	0.097	0.018
Chrysene	ND		mg/kg	0.097	0.017

Project Name: ALLIANCE-S. 51ST ST. **Lab Number:** L2158500

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/21 22:35
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05 Batch: WG1567282-1					
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.056
Di-n-octylphthalate	ND		mg/kg	0.16	0.055
Benzo(b)fluoranthene	ND		mg/kg	0.097	0.027
Benzo(k)fluoranthene	ND		mg/kg	0.097	0.026
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.022
Dibenzo(a,h)anthracene	ND		mg/kg	0.097	0.019
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	60		18-120

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678
Lab Number: L2158500
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/05/21 11:50
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 11/04/21 15:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03,05 Batch: WG1567286-1					
Bis(2-chloroethyl)ether	ND		mg/kg	0.032	0.0090
n-Nitrosodi-n-propylamine	ND		mg/kg	0.032	0.0085

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	52		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.

Project Number: 30108678

Lab Number: L2158500

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG1567282-2 WG1567282-3								
Benzaldehyde	64		53		40-140	19		50
Phenol	62		52		26-90	18		50
2-Chlorophenol	68		56		25-102	19		50
2-Methylphenol	67		57		30-130	16		50
Bis(2-chloroisopropyl)ether	61		50		40-140	20		50
Acetophenone	68		58		14-144	16		50
1,4-Dioxane	51		44		30-130	15		50
3-Methylphenol/4-Methylphenol	68		59		30-130	14		50
Hexachloroethane	66		54		40-140	20		50
Nitrobenzene	66		55		40-140	18		50
Isophorone	65		55		40-140	17		50
2-Nitrophenol	68		58		30-130	16		50
2,4-Dimethylphenol	70		58		30-130	19		50
Bis(2-chloroethoxy)methane	64		54		40-117	17		50
2,4-Dichlorophenol	71		59		30-130	18		50
Naphthalene	58		54		40-140	7		50
4-Chloroaniline	59		52		40-140	13		50
Hexachlorobutadiene	62		58		40-140	7		50
Caprolactam	64		59		15-130	8		50
p-Chloro-m-cresol	66		60		26-103	10		50
2-Methylnaphthalene	61		57		40-140	7		50
Hexachlorocyclopentadiene	63		59		40-140	7		50
1,2,4,5-Tetrachlorobenzene	63		57		40-117	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.

Project Number: 30108678

Lab Number: L2158500

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG1567282-2 WG1567282-3								
2,4,6-Trichlorophenol	64		60		30-130	6		50
2,4,5-Trichlorophenol	67		59		30-130	13		50
Biphenyl	62		58		37-127	7		50
2-Chloronaphthalene	61		57		40-140	7		50
2-Nitroaniline	64		58		47-134	10		50
Dimethyl phthalate	62		57		40-140	8		50
2,6-Dinitrotoluene	64		59		40-140	8		50
Acenaphthylene	62		57		40-140	8		50
3-Nitroaniline	50		49		26-129	2		50
Acenaphthene	58		54		31-137	7		50
2,4-Dinitrophenol	48		42		4-130	13		50
4-Nitrophenol	64		59		11-114	8		50
2,4-Dinitrotoluene	62		58		40-132	7		50
Dibenzofuran	58		54		40-140	7		50
2,3,4,6-Tetrachlorophenol	64		59		58-132	8		50
Diethyl phthalate	59		56		40-140	5		50
Fluorene	58		54		40-140	7		50
4-Chlorophenyl phenyl ether	58		55		40-140	5		50
4-Nitroaniline	58		55		41-125	5		50
4,6-Dinitro-o-cresol	59		56		10-130	5		50
NDPA/DPA	59		56		36-157	5		50
4-Bromophenyl phenyl ether	60		56		40-140	7		50
Hexachlorobenzene	60		56		40-140	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.

Project Number: 30108678

Lab Number: L2158500

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG1567282-2 WG1567282-3								
Pentachlorophenol	64		59		17-109	8		50
Atrazine	66		63		40-140	5		50
Phenanthrene	57		55		40-140	4		50
Anthracene	59		56		40-140	5		50
Carbazole	60		56		54-128	7		50
Di-n-butylphthalate	59		56		40-140	5		50
Fluoranthene	60		57		40-140	5		50
Pyrene	61		57		35-142	7		50
Butyl benzyl phthalate	62		59		40-140	5		50
3,3'-Dichlorobenzidine	44		41		40-140	7		50
Benzo(a)anthracene	58		55		40-140	5		50
Chrysene	59		56		40-140	5		50
Bis(2-ethylhexyl)phthalate	58		55		40-140	5		50
Di-n-octylphthalate	60		57		40-140	5		50
Benzo(b)fluoranthene	62		60		40-140	3		50
Benzo(k)fluoranthene	61		58		40-140	5		50
Benzo(a)pyrene	63		59		40-140	7		50
Indeno(1,2,3-cd)pyrene	60		58		40-140	3		50
Dibenzo(a,h)anthracene	59		57		40-140	3		50
Benzo(ghi)perylene	59		57		40-140	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.

Project Number: 30108678

Lab Number: L2158500

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG1567282-2 WG1567282-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		58		25-120
Phenol-d6	72		61		10-120
Nitrobenzene-d5	66		56		23-120
2-Fluorobiphenyl	60		56		30-120
2,4,6-Tribromophenol	67		60		10-136
4-Terphenyl-d14	62		57		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.

Project Number: 30108678

Lab Number: L2158500

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03,05 Batch: WG1567286-2 WG1567286-3								
Bis(2-chloroethyl)ether	59		52		40-140	13		50
n-Nitrosodi-n-propylamine	62		55		40-140	12		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		50		25-120
Phenol-d6	57		50		10-120
Nitrobenzene-d5	59		51		23-120
2-Fluorobiphenyl	56		50		30-120
2,4,6-Tribromophenol	106		94		10-136
4-Terphenyl-d14	49		43		18-120

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-01
Client ID: SB-101 (1.5-2)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:15
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.1		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-02
Client ID: SB-102 (2.5-3)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:20
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-03
Client ID: SB-103 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	63.1		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-04
Client ID: SB-104 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	53.3		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-05
Client ID: SB-105 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	55.0		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-06
Client ID: SB-106 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 14:55
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.8		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158500-07
Client ID: SB-107 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.5		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST.

Project Number: 30108678

Lab Number: L2158500

Report Date: 11/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1563706-1 QC Sample: L2158500-01 Client ID: SB-101 (1.5-2)						
Solids, Total	70.1	68.4	%	2		20

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
C	Absent
D	Absent
E	Absent
G	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158500-01A	5 gram Encore Sampler	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-01B	5 gram Encore Sampler	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-01C	5 gram Encore Sampler	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-01D	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM(),TS(7)
L2158500-01X	Vial MeOH preserved split	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-01Y	Vial Water preserved split	C	NA		3.8	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-01Z	Vial Water preserved split	C	NA		3.8	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-02A	5 gram Encore Sampler	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-02B	5 gram Encore Sampler	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-02C	5 gram Encore Sampler	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-02D	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM(),TS(7)
L2158500-02X	Vial MeOH preserved split	C	NA		3.8	Y	Absent		PA-8260HLW(14)
L2158500-02Y	Vial Water preserved split	C	NA		3.8	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-02Z	Vial Water preserved split	C	NA		3.8	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-03A	5 gram Encore Sampler	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-03B	5 gram Encore Sampler	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-03C	5 gram Encore Sampler	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-03D	Plastic 2oz unpreserved for TS	E	NA		3.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158500-03E	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM(),PA-8270SIM(14),PA-8270(14)
L2158500-03X	Vial MeOH preserved split	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-03Y	Vial Water preserved split	E	NA		3.2	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-03Z	Vial Water preserved split	E	NA		3.2	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-04A	5 gram Encore Sampler	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-04B	5 gram Encore Sampler	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-04C	5 gram Encore Sampler	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-04D	Plastic 2oz unpreserved for TS	D	NA		5.6	Y	Absent		TS(7)
L2158500-04E	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM()
L2158500-04X	Vial MeOH preserved split	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-04Y	Vial Water preserved split	D	NA		5.6	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-04Z	Vial Water preserved split	D	NA		5.6	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-05A	5 gram Encore Sampler	G	NA		3.1	Y	Absent		PA-8260HLW(14)
L2158500-05B	5 gram Encore Sampler	G	NA		3.1	Y	Absent		PA-8260HLW(14)
L2158500-05C	5 gram Encore Sampler	G	NA		3.1	Y	Absent		PA-8260HLW(14)
L2158500-05D	Plastic 2oz unpreserved for TS	G	NA		3.1	Y	Absent		TS(7)
L2158500-05E	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM(),PA-8270SIM(14),PA-8270(14)
L2158500-05X	Vial MeOH preserved split	G	NA		3.1	Y	Absent		PA-8260HLW(14)
L2158500-05Y	Vial Water preserved split	G	NA		3.1	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-05Z	Vial Water preserved split	G	NA		3.1	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-06A	5 gram Encore Sampler	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-06B	5 gram Encore Sampler	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-06C	5 gram Encore Sampler	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-06D	Plastic 2oz unpreserved for TS	D	NA		5.6	Y	Absent		TS(7)
L2158500-06E	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM()
L2158500-06X	Vial MeOH preserved split	D	NA		5.6	Y	Absent		PA-8260HLW(14)
L2158500-06Y	Vial Water preserved split	D	NA		5.6	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-06Z	Vial Water preserved split	D	NA		5.6	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE-S. 51ST ST.
Project Number: 30108678

Lab Number: L2158500
Report Date: 11/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158500-07A	5 gram Encore Sampler	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-07B	5 gram Encore Sampler	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-07C	5 gram Encore Sampler	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-07D	Plastic 2oz unpreserved for TS	E	NA		3.2	Y	Absent		TS(7)
L2158500-07E	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-WETCHEM()
L2158500-07X	Vial MeOH preserved split	E	NA		3.2	Y	Absent		PA-8260HLW(14)
L2158500-07Y	Vial Water preserved split	E	NA		3.2	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)
L2158500-07Z	Vial Water preserved split	E	NA		3.2	Y	Absent	27-OCT-21 08:59	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST ST.	**Lab Number:**	L2158500
Project Number:	30108678	**Report Date:**	11/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158500

Client Information
Client: Arcadis
Address: 1 Harvard Way, Suite 5
Hillsborough, NJ 08844
Phone: 908 526 1600
Fax: 908 253 3295
Email: Larry.Brant@arcadis.com

Project Information
Project Name: Alliance - S. 51st St
Project Location: Philadelphia, PA
Project # 30105678
(Use Project name as Project #) ☐
Project Manager: Larry Brant
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

VOCs 8260 (Field Blank Volume to Analyze)

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	Field Blank	Sample Specific Comments	Total Bottle
58500 - 01	SB-101 (1.5-2)	10/25/21	1445	SOIL	MH	X	X	Run VOCs; Hold all else	3
-02	SB-102 (2.5-3)		1420			X	X		3
-03	SB-103 (4.5-5)		1425			X	X		3
-04	SB-104 (4.5-5)		1435			X	X		3
-05	SB-105 (4.5-5)		1445			X	X		3
-06	SB-106 (4.5-5)		1455			X	X		3
-07	SB-107 (4.5-5)		1500			X	X		3

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	E	A
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
MH	10/26/21 1700		
	10/26/21 1700		10/26/21 1700
	10-26-2130		10/26/21 2130
			10/27/21 0335
			10/27/21 07:35

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

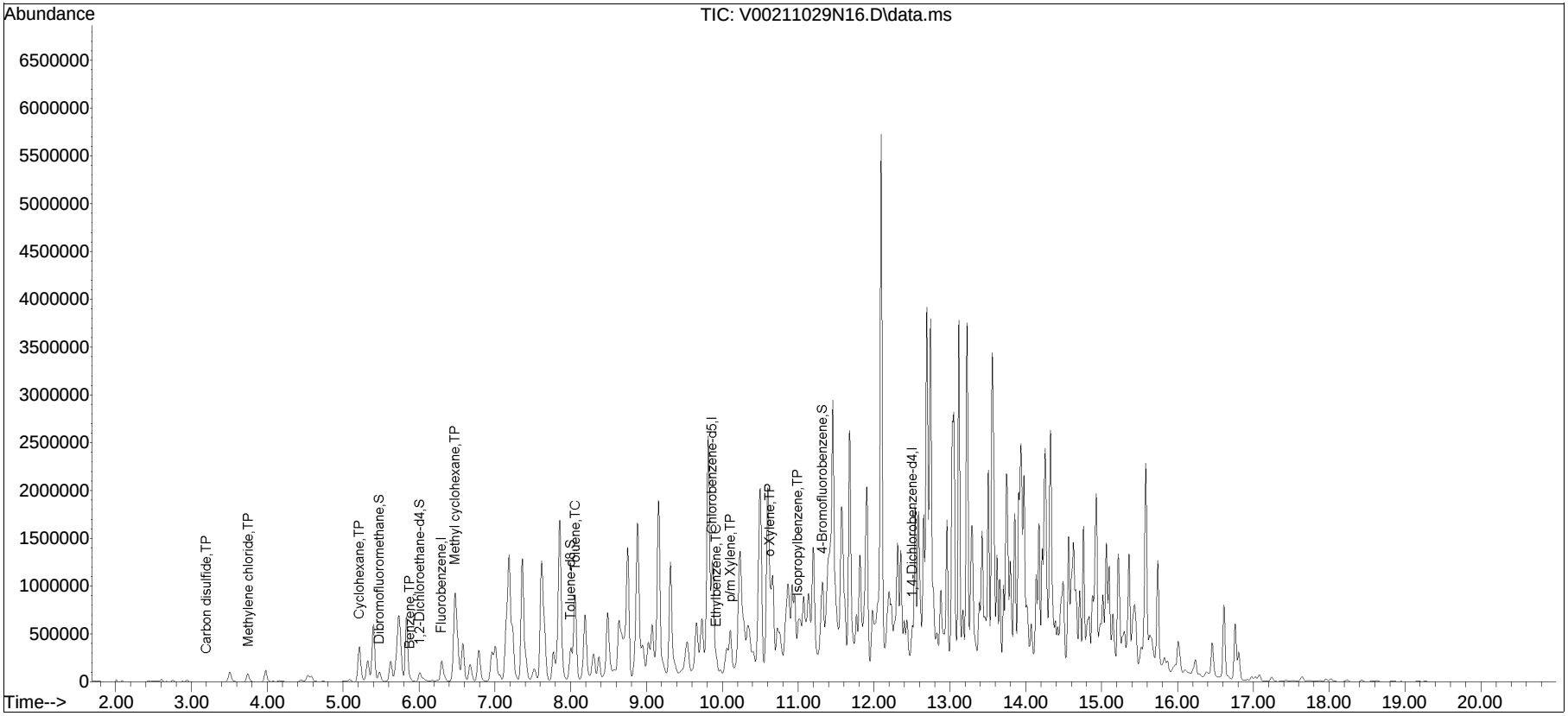
Form No: 01-14 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA100\2021\211029N\
Data File : V00211029N16.D
Acq On : 30 Oct 2021 1:42 am
Operator : VOA100:NLK
Sample : L2158500-01,31H,3.89,5,0.100,,X
Misc : WG1565247,ICAL18132
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 30 11:32:05 2021
Quant Method : I:\VOLATILES\VOA100\2021\211029N\V100_210708N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 09 13:15:36 2021
Response via : Initial Calibration

Sub List : 8260-NJ+TBA - Standard NJ plus TBA Sublist1029N01.D•

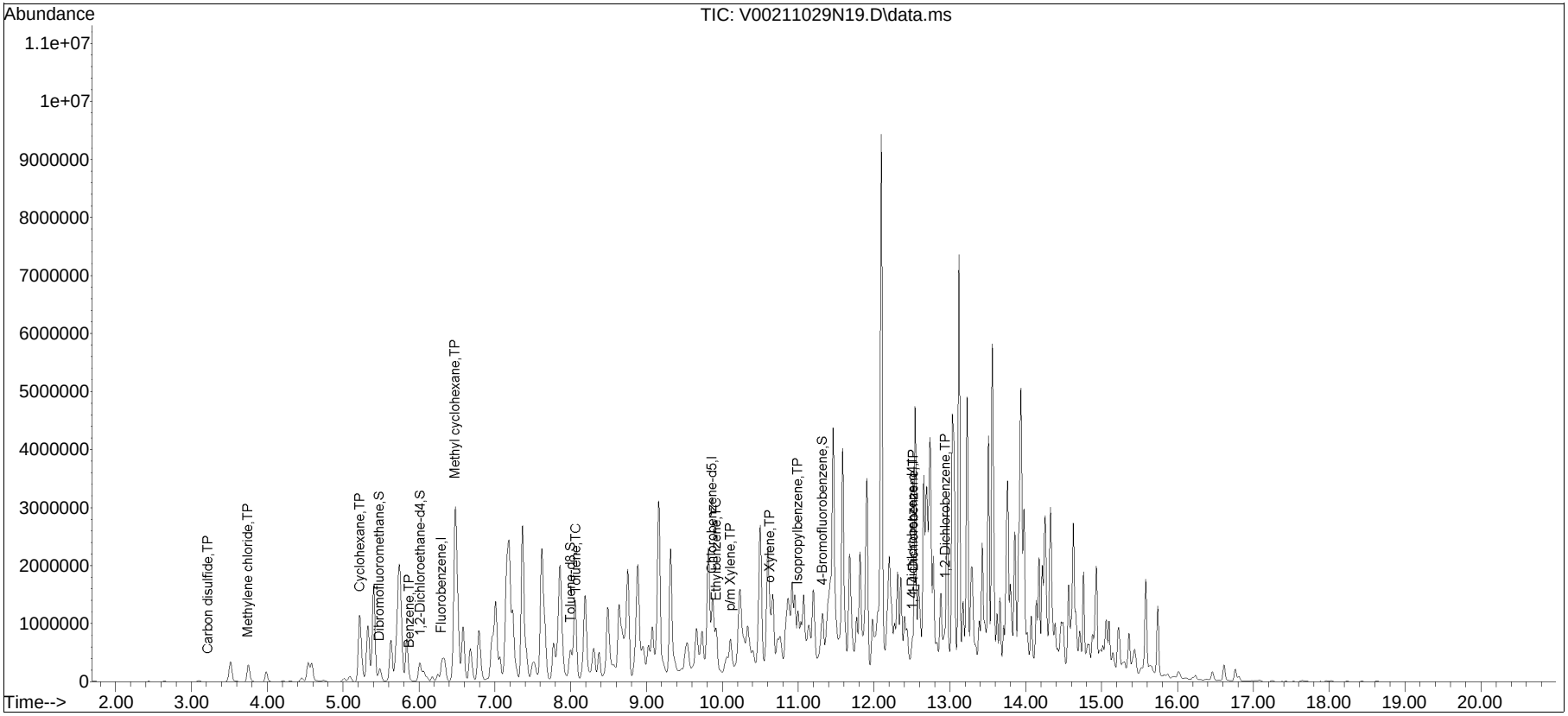


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA100\2021\211029N\
Data File : V00211029N19.D
Acq On : 30 Oct 2021 3:00 am
Operator : VOA100:NLK
Sample : L2158500-03D,31H,3.90,5,0.050,,X
Misc : WG1565247,ICAL18132
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 30 11:33:30 2021
Quant Method : I:\VOLATILES\VOA100\2021\211029N\V100_210708N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 09 13:15:36 2021
Response via : Initial Calibration

Sub List : 8260-NJ+TBA - Standard NJ plus TBA Sublist1029N01.D•

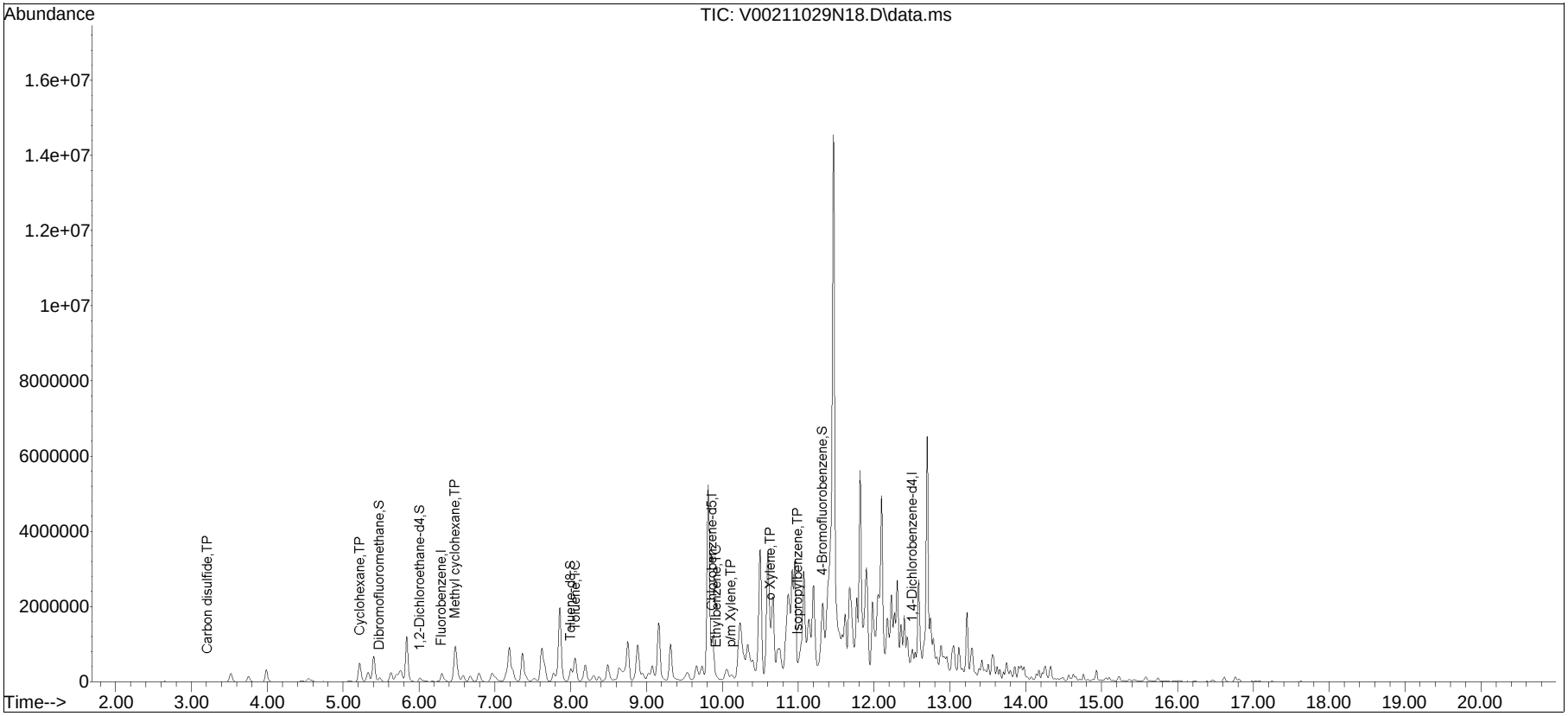


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA100\2021\211029N\
Data File : V00211029N18.D
Acq On : 30 Oct 2021 2:34 am
Operator : VOA100:NLK
Sample : L2158500-04D,31H,4.49,5,0.050,,X
Misc : WG1565247,ICAL18132
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 30 11:32:47 2021
Quant Method : I:\VOLATILES\VOA100\2021\211029N\V100_210708N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 09 13:15:36 2021
Response via : Initial Calibration

Sub List : 8260-NJ+TBA - Standard NJ plus TBA Sublist1029N01.D•



ANALYTICAL REPORT

Lab Number:	L2158502
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE-S. 51ST ST
Project Number:	30108678
Report Date:	11/09/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158502-01	B-1 (14-14.5)	SOIL	PHILADELPHIA, PA	10/25/21 09:15	10/26/21
L2158502-02	B-2 (9.5-10)	SOIL	PHILADELPHIA, PA	10/25/21 09:25	10/26/21
L2158502-03	B-3 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 09:35	10/26/21
L2158502-04	B-7 (6.5-7)	SOIL	PHILADELPHIA, PA	10/25/21 10:25	10/26/21
L2158502-05	B-7 (10-10.5)	SOIL	PHILADELPHIA, PA	10/25/21 10:30	10/26/21
L2158502-06	B-8 (8-8.5)	SOIL	PHILADELPHIA, PA	10/25/21 10:10	10/26/21
L2158502-07	B-9 (7.5-8)	SOIL	PHILADELPHIA, PA	10/25/21 11:10	10/26/21
L2158502-08	B-12 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 11:50	10/26/21
L2158502-09	B-12 (5.5-6)	SOIL	PHILADELPHIA, PA	10/25/21 11:55	10/26/21
L2158502-10	B-13 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 12:50	10/26/21
L2158502-11	B-14 (9.5-10)	SOIL	PHILADELPHIA, PA	10/25/21 12:40	10/26/21
L2158502-12	B-15 (12-12.5)	SOIL	PHILADELPHIA, PA	10/25/21 12:15	10/26/21
L2158502-13	COMP-1	SOIL	PHILADELPHIA, PA	10/25/21 15:15	10/26/21
L2158502-14	COMP-2	SOIL	PHILADELPHIA, PA	10/25/21 15:20	10/26/21
L2158502-15	COMP-3	SOIL	PHILADELPHIA, PA	10/25/21 15:25	10/26/21
L2158502-16	COMP-4	SOIL	PHILADELPHIA, PA	10/25/21 15:30	10/26/21
L2158502-17	COMP-5	SOIL	PHILADELPHIA, PA	10/25/21 15:35	10/26/21
L2158502-18	COMP-6	SOIL	PHILADELPHIA, PA	10/25/21 15:40	10/26/21
L2158502-19	COMP-7	SOIL	PHILADELPHIA, PA	10/25/21 15:45	10/26/21
L2158502-20	COMP-8	SOIL	PHILADELPHIA, PA	10/25/21 15:50	10/26/21
L2158502-21	COMP-9	SOIL	PHILADELPHIA, PA	10/25/21 15:55	10/26/21
L2158502-22	COMP-10	SOIL	PHILADELPHIA, PA	10/25/21 16:00	10/26/21
L2158502-23	COMP-11	SOIL	PHILADELPHIA, PA	10/25/21 16:05	10/26/21
L2158502-24	COMP-12	SOIL	PHILADELPHIA, PA	10/25/21 16:10	10/26/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158502-25	B-1 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 09:05	10/26/21
L2158502-26	B-1 (9.5-10)	SOIL	PHILADELPHIA, PA	10/25/21 09:10	10/26/21
L2158502-27	B-2 (3.5-4)	SOIL	PHILADELPHIA, PA	10/25/21 09:20	10/26/21
L2158502-28	B-2 (14.5-15)	SOIL	PHILADELPHIA, PA	10/25/21 09:30	10/26/21
L2158502-29	B-3 (9.5-10)	SOIL	PHILADELPHIA, PA	10/25/21 09:40	10/26/21
L2158502-30	B-3 (14.5-15)	SOIL	PHILADELPHIA, PA	10/25/21 09:45	10/26/21
L2158502-31	B-4 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 09:50	10/26/21
L2158502-32	B-4 (8.5-9)	SOIL	PHILADELPHIA, PA	10/25/21 09:55	10/26/21
L2158502-33	B-4 (14.5-15)	SOIL	PHILADELPHIA, PA	10/25/21 10:00	10/26/21
L2158502-34	B-5 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 10:50	10/26/21
L2158502-35	B-5 (9-9.5)	SOIL	PHILADELPHIA, PA	10/25/21 10:55	10/26/21
L2158502-36	B-5 (14-14.5)	SOIL	PHILADELPHIA, PA	10/25/21 11:00	10/26/21
L2158502-37	B-6 (2-2.5)	SOIL	PHILADELPHIA, PA	10/25/21 10:35	10/26/21
L2158502-38	B-6 (6.5-7)	SOIL	PHILADELPHIA, PA	10/25/21 10:40	10/26/21
L2158502-39	B-6 (10-10.5)	SOIL	PHILADELPHIA, PA	10/25/21 10:45	10/26/21
L2158502-40	B-7 (3.5-4)	SOIL	PHILADELPHIA, PA	10/25/21 10:20	10/26/21
L2158502-41	B-8 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 10:05	10/26/21
L2158502-42	B-8 (11-11.5)	SOIL	PHILADELPHIA, PA	10/25/21 10:15	10/26/21
L2158502-43	B-9 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 11:05	10/26/21
L2158502-44	B-9 (11.5-12)	SOIL	PHILADELPHIA, PA	10/25/21 11:15	10/26/21
L2158502-45	B-10 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 11:20	10/26/21
L2158502-46	B-10 (9.5-10)	SOIL	PHILADELPHIA, PA	10/25/21 11:25	10/26/21
L2158502-47	B-10 (14.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 11:30	10/26/21
L2158502-48	B-11 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 11:35	10/26/21
L2158502-49	B-11 (9.5-10)	SOIL	PHILADELPHIA, PA	10/25/21 11:40	10/26/21
L2158502-50	B-11 (14.5-15)	SOIL	PHILADELPHIA, PA	10/25/21 11:45	10/26/21
L2158502-51	B-12 (10-10.5)	SOIL	PHILADELPHIA, PA	10/25/21 12:00	10/26/21
L2158502-52	B-13 (9.5-10)	SOIL	PHILADELPHIA, PA	10/25/21 12:55	10/26/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158502-53	B-13 (14.5-15)	SOIL	PHILADELPHIA, PA	10/25/21 13:00	10/26/21
L2158502-54	B-14 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 12:35	10/26/21
L2158502-55	B-14 (14.5-15)	SOIL	PHILADELPHIA, PA	10/25/21 12:45	10/26/21
L2158502-56	B-15 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 12:05	10/26/21
L2158502-57	B-15 (9.5-10)	SOIL	PHILADELPHIA, PA	10/25/21 12:10	10/26/21
L2158502-58	B-16 (4.5-5)	SOIL	PHILADELPHIA, PA	10/25/21 12:20	10/26/21
L2158502-59	B-16 (9.5-10)	SOIL	PHILADELPHIA, PA	10/25/21 12:25	10/26/21
L2158502-60	B-16 (14.5-15)	SOIL	PHILADELPHIA, PA	10/25/21 12:30	10/26/21

Project Name:	ALLIANCE-S. 51ST ST	**Lab Number:**	L2158502
Project Number:	30108678	**Report Date:**	11/09/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Case Narrative (continued)

Report Submission

November 09, 2021: This final report includes the results of all requested analyses.

November 08, 2021: This is a preliminary report. The Volatile Organics analyte list has been amended on L2158502-06.

November 02, 2021: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2158502-17: The collection date and time on the chain of custody was 25-OCT-21 15:35; however, the collection date/time on the container label was 25-OCT-21 10:35. At the client's request, the collection date/time is reported as 25-OCT-21 15:35.

L2158502-32: The sample identified as "B-4 (13.5-" on the chain of custody was identified as "B-4 (8.5-9)" on the container label. At the client's request, the sample is reported as "B-4 (8.5-9)".

Total Metals

L2158502-13 through -24: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 11/09/21

ORGANICS

VOLATILES

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-01
Client ID: B-1 (14-14.5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 09:15
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/29/21 21:02
Analyst: NLK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0046	0.0011	1
Vinyl chloride	ND		mg/kg	0.0011	0.00038	1
Bromomethane	ND		mg/kg	0.0023	0.00066	1
Chloroethane	ND		mg/kg	0.0023	0.00051	1
Trichlorofluoromethane	ND		mg/kg	0.0046	0.00079	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00027	1
Carbon disulfide	ND		mg/kg	0.011	0.0052	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0046	0.00079	1
Methylene chloride	ND		mg/kg	0.0057	0.0026	1
Acetone	ND		mg/kg	0.028	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00016	1
Methyl Acetate	ND		mg/kg	0.0046	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00016	1
Cyclohexane	ND		mg/kg	0.011	0.00062	1
Bromochloromethane	ND		mg/kg	0.0023	0.00023	1
Chloroform	ND		mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00057	0.00019	1
2-Butanone	ND		mg/kg	0.011	0.0025	1
Benzene	ND		mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Methyl cyclohexane	ND		mg/kg	0.0046	0.00069	1
Trichloroethene	ND		mg/kg	0.00057	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-01
Client ID: B-1 (14-14.5)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 09:15
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00057	0.00012	1
1,4-Dioxane	ND		mg/kg	0.091	0.040	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00057	0.00018	1
Toluene	ND		mg/kg	0.0011	0.00062	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00057	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00031	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00057	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00030	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00033	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00057	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0023	0.00064	1
o-Xylene	ND		mg/kg	0.0011	0.00033	1
Xylenes, Total	ND		mg/kg	0.0011	0.00033	1
Styrene	ND		mg/kg	0.0011	0.00022	1
Bromoform	ND		mg/kg	0.0046	0.00028	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00057	0.00019	1
1,3-Dichlorobenzene	ND		mg/kg	0.0023	0.00017	1
1,4-Dichlorobenzene	ND		mg/kg	0.0023	0.00019	1
1,2-Dichlorobenzene	ND		mg/kg	0.0023	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0034	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0023	0.00031	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0023	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	108		70-130

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-02
Client ID: B-2 (9.5-10)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 09:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/29/21 21:27
Analyst: NLK
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.015	0.0013	1
Chloromethane	ND		mg/kg	0.0059	0.0014	1
Vinyl chloride	ND		mg/kg	0.0015	0.00049	1
Bromomethane	ND		mg/kg	0.0029	0.00085	1
Chloroethane	ND		mg/kg	0.0029	0.00066	1
Trichlorofluoromethane	ND		mg/kg	0.0059	0.0010	1
1,1-Dichloroethene	ND		mg/kg	0.0015	0.00035	1
Carbon disulfide	ND		mg/kg	0.015	0.0067	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0059	0.0010	1
Methylene chloride	ND		mg/kg	0.0073	0.0034	1
Acetone	ND		mg/kg	0.037	0.015	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0022	0.00020	1
Methyl Acetate	ND		mg/kg	0.0059	0.0014	1
Methyl tert butyl ether	ND		mg/kg	0.0029	0.00030	1
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00021	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00026	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0015	0.00020	1
Cyclohexane	ND		mg/kg	0.015	0.00080	1
Bromochloromethane	ND		mg/kg	0.0029	0.00030	1
Chloroform	0.00035	J	mg/kg	0.0022	0.00020	1
Carbon tetrachloride	ND		mg/kg	0.0015	0.00034	1
1,1,1-Trichloroethane	ND		mg/kg	0.00073	0.00024	1
2-Butanone	ND		mg/kg	0.015	0.0032	1
Benzene	ND		mg/kg	0.00073	0.00024	1
1,2-Dichloroethane	ND		mg/kg	0.0015	0.00038	1
Methyl cyclohexane	ND		mg/kg	0.0059	0.00088	1
Trichloroethene	ND		mg/kg	0.00073	0.00020	1
1,2-Dichloropropane	ND		mg/kg	0.0015	0.00018	1

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-02
Client ID: B-2 (9.5-10)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 09:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00073	0.00016	1
1,4-Dioxane	ND		mg/kg	0.12	0.052	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00073	0.00023	1
Toluene	ND		mg/kg	0.0015	0.00080	1
4-Methyl-2-pentanone	ND		mg/kg	0.015	0.0019	1
Tetrachloroethene	ND		mg/kg	0.00073	0.00029	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0015	0.00040	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00073	0.00023	1
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00039	1
Dibromochloromethane	ND		mg/kg	0.0015	0.00020	1
1,2-Dibromoethane	ND		mg/kg	0.00073	0.00043	1
2-Hexanone	ND		mg/kg	0.015	0.0017	1
Chlorobenzene	ND		mg/kg	0.00073	0.00019	1
Ethylbenzene	ND		mg/kg	0.0015	0.00021	1
p/m-Xylene	ND		mg/kg	0.0029	0.00082	1
o-Xylene	ND		mg/kg	0.0015	0.00043	1
Xylenes, Total	ND		mg/kg	0.0015	0.00043	1
Styrene	ND		mg/kg	0.0015	0.00029	1
Bromoform	ND		mg/kg	0.0059	0.00036	1
Isopropylbenzene	ND		mg/kg	0.0015	0.00016	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00073	0.00024	1
1,3-Dichlorobenzene	ND		mg/kg	0.0029	0.00022	1
1,4-Dichlorobenzene	ND		mg/kg	0.0029	0.00025	1
1,2-Dichlorobenzene	ND		mg/kg	0.0029	0.00021	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0044	0.0015	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0029	0.00040	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0029	0.00047	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	114		70-130

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-03
Client ID: B-3 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 09:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/29/21 21:53
Analyst: NLK
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0015	1
Chloromethane	ND		mg/kg	0.0066	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00055	1
Bromomethane	ND		mg/kg	0.0033	0.00096	1
Chloroethane	ND		mg/kg	0.0033	0.00075	1
Trichlorofluoromethane	ND		mg/kg	0.0066	0.0012	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00039	1
Carbon disulfide	ND		mg/kg	0.016	0.0075	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0066	0.0011	1
Methylene chloride	ND		mg/kg	0.0083	0.0038	1
Acetone	ND		mg/kg	0.041	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0025	0.00023	1
Methyl Acetate	ND		mg/kg	0.0066	0.0016	1
Methyl tert butyl ether	ND		mg/kg	0.0033	0.00033	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00024	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00029	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00023	1
Cyclohexane	ND		mg/kg	0.016	0.00090	1
Bromochloromethane	ND		mg/kg	0.0033	0.00034	1
Chloroform	0.00042	J	mg/kg	0.0025	0.00023	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00038	1
1,1,1-Trichloroethane	ND		mg/kg	0.00083	0.00028	1
2-Butanone	ND		mg/kg	0.016	0.0037	1
Benzene	ND		mg/kg	0.00083	0.00027	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00042	1
Methyl cyclohexane	ND		mg/kg	0.0066	0.0010	1
Trichloroethene	ND		mg/kg	0.00083	0.00023	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00021	1

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-03
Client ID: B-3 (4.5-5)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 09:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00083	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.058	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00083	0.00026	1
Toluene	ND		mg/kg	0.0016	0.00090	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0021	1
Tetrachloroethene	ND		mg/kg	0.00083	0.00032	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00045	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00083	0.00026	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00044	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00023	1
1,2-Dibromoethane	ND		mg/kg	0.00083	0.00048	1
2-Hexanone	ND		mg/kg	0.016	0.0020	1
Chlorobenzene	ND		mg/kg	0.00083	0.00021	1
Ethylbenzene	ND		mg/kg	0.0016	0.00023	1
p/m-Xylene	ND		mg/kg	0.0033	0.00093	1
o-Xylene	ND		mg/kg	0.0016	0.00048	1
Xylenes, Total	ND		mg/kg	0.0016	0.00048	1
Styrene	ND		mg/kg	0.0016	0.00032	1
Bromoform	ND		mg/kg	0.0066	0.00041	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00083	0.00027	1
1,3-Dichlorobenzene	ND		mg/kg	0.0033	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0033	0.00028	1
1,2-Dichlorobenzene	ND		mg/kg	0.0033	0.00024	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0050	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0033	0.00045	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0033	0.00053	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	118		70-130

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-04
Client ID: B-7 (6.5-7)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 10:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/29/21 22:18
Analyst: NLK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0015	1
Chloromethane	ND		mg/kg	0.0065	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00054	1
Bromomethane	ND		mg/kg	0.0032	0.00094	1
Chloroethane	ND		mg/kg	0.0032	0.00074	1
Trichlorofluoromethane	ND		mg/kg	0.0065	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00039	1
Carbon disulfide	ND		mg/kg	0.016	0.0074	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0065	0.0011	1
Methylene chloride	ND		mg/kg	0.0081	0.0037	1
Acetone	0.022	J	mg/kg	0.041	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00022	1
Methyl Acetate	ND		mg/kg	0.0065	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0032	0.00033	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00024	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00028	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00022	1
Cyclohexane	ND		mg/kg	0.016	0.00088	1
Bromochloromethane	ND		mg/kg	0.0032	0.00033	1
Chloroform	0.00047	J	mg/kg	0.0024	0.00023	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00037	1
1,1,1-Trichloroethane	ND		mg/kg	0.00081	0.00027	1
2-Butanone	ND		mg/kg	0.016	0.0036	1
Benzene	ND		mg/kg	0.00081	0.00027	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00042	1
Methyl cyclohexane	ND		mg/kg	0.0065	0.00098	1
Trichloroethene	ND		mg/kg	0.00081	0.00022	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00020	1

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-04
Client ID: B-7 (6.5-7)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 10:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00081	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.057	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00081	0.00026	1
Toluene	ND		mg/kg	0.0016	0.00088	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0021	1
Tetrachloroethene	ND		mg/kg	0.00081	0.00032	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00044	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00081	0.00026	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00043	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00023	1
1,2-Dibromoethane	ND		mg/kg	0.00081	0.00048	1
2-Hexanone	ND		mg/kg	0.016	0.0019	1
Chlorobenzene	ND		mg/kg	0.00081	0.00021	1
Ethylbenzene	ND		mg/kg	0.0016	0.00023	1
p/m-Xylene	ND		mg/kg	0.0032	0.00091	1
o-Xylene	ND		mg/kg	0.0016	0.00047	1
Xylenes, Total	ND		mg/kg	0.0016	0.00047	1
Styrene	ND		mg/kg	0.0016	0.00032	1
Bromoform	ND		mg/kg	0.0065	0.00040	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00081	0.00027	1
1,3-Dichlorobenzene	ND		mg/kg	0.0032	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0032	0.00028	1
1,2-Dichlorobenzene	ND		mg/kg	0.0032	0.00023	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0049	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0032	0.00044	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0032	0.00052	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	120		70-130

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-05
Client ID: B-7 (10-10.5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 10:30
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/29/21 22:43
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0011	1
Chloromethane	ND		mg/kg	0.0049	0.0011	1
Vinyl chloride	ND		mg/kg	0.0012	0.00041	1
Bromomethane	ND		mg/kg	0.0024	0.00071	1
Chloroethane	ND		mg/kg	0.0024	0.00056	1
Trichlorofluoromethane	ND		mg/kg	0.0049	0.00085	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00029	1
Carbon disulfide	ND		mg/kg	0.012	0.0056	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0049	0.00085	1
Methylene chloride	ND		mg/kg	0.0061	0.0028	1
Acetone	ND		mg/kg	0.031	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0018	0.00017	1
Methyl Acetate	ND		mg/kg	0.0049	0.0012	1
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00025	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00018	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00021	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00017	1
Cyclohexane	ND		mg/kg	0.012	0.00067	1
Bromochloromethane	ND		mg/kg	0.0024	0.00025	1
Chloroform	0.00030	J	mg/kg	0.0018	0.00017	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00028	1
1,1,1-Trichloroethane	ND		mg/kg	0.00061	0.00020	1
2-Butanone	ND		mg/kg	0.012	0.0027	1
Benzene	ND		mg/kg	0.00061	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00032	1
Methyl cyclohexane	ND		mg/kg	0.0049	0.00074	1
Trichloroethene	ND		mg/kg	0.00061	0.00017	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00015	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-05 Date Collected: 10/25/21 10:30

Client ID: B-7 (10-10.5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00061	0.00013	1
1,4-Dioxane	ND		mg/kg	0.098	0.043	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00061	0.00019	1
Toluene	ND		mg/kg	0.0012	0.00067	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0016	1
Tetrachloroethene	ND		mg/kg	0.00061	0.00024	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00034	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00061	0.00019	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00033	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00017	1
1,2-Dibromoethane	ND		mg/kg	0.00061	0.00036	1
2-Hexanone	ND		mg/kg	0.012	0.0014	1
Chlorobenzene	ND		mg/kg	0.00061	0.00016	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	ND		mg/kg	0.0024	0.00069	1
o-Xylene	ND		mg/kg	0.0012	0.00036	1
Xylenes, Total	ND		mg/kg	0.0012	0.00036	1
Styrene	ND		mg/kg	0.0012	0.00024	1
Bromoform	ND		mg/kg	0.0049	0.00030	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00061	0.00020	1
1,3-Dichlorobenzene	ND		mg/kg	0.0024	0.00018	1
1,4-Dichlorobenzene	ND		mg/kg	0.0024	0.00021	1
1,2-Dichlorobenzene	ND		mg/kg	0.0024	0.00018	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0037	0.0012	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0024	0.00033	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0024	0.00040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	111		70-130

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-06
Client ID: B-8 (8-8.5)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 10:10
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/01/21 00:27
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0011	1
Chloromethane	ND		mg/kg	0.0049	0.0011	1
Vinyl chloride	ND		mg/kg	0.0012	0.00041	1
Bromomethane	ND		mg/kg	0.0024	0.00071	1
Chloroethane	ND		mg/kg	0.0024	0.00055	1
Trichlorofluoromethane	ND		mg/kg	0.0049	0.00085	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00029	1
Carbon disulfide	ND		mg/kg	0.012	0.0056	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0049	0.00085	1
Methylene chloride	ND		mg/kg	0.0061	0.0028	1
Acetone	0.027	J	mg/kg	0.031	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0018	0.00017	1
Methyl Acetate	ND		mg/kg	0.0049	0.0012	1
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00025	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00018	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00021	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00017	1
Cyclohexane	ND		mg/kg	0.012	0.00067	1
Bromochloromethane	ND		mg/kg	0.0024	0.00025	1
Chloroform	ND		mg/kg	0.0018	0.00017	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00028	1
1,1,1-Trichloroethane	ND		mg/kg	0.00061	0.00020	1
2-Butanone	ND		mg/kg	0.012	0.0027	1
Benzene	ND		mg/kg	0.00061	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00031	1
Methyl cyclohexane	ND		mg/kg	0.0049	0.00074	1
Trichloroethene	ND		mg/kg	0.00061	0.00017	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00015	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-06 Date Collected: 10/25/21 10:10

Client ID: B-8 (8-8.5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00061	0.00013	1
1,4-Dioxane	ND		mg/kg	0.098	0.043	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00061	0.00019	1
Toluene	ND		mg/kg	0.0012	0.00066	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0016	1
Tetrachloroethene	ND		mg/kg	0.00061	0.00024	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00033	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00061	0.00019	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00033	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00017	1
1,2-Dibromoethane	ND		mg/kg	0.00061	0.00036	1
2-Hexanone	ND		mg/kg	0.012	0.0014	1
Chlorobenzene	ND		mg/kg	0.00061	0.00016	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	ND		mg/kg	0.0024	0.00068	1
o-Xylene	ND		mg/kg	0.0012	0.00036	1
Xylenes, Total	ND		mg/kg	0.0012	0.00036	1
Styrene	ND		mg/kg	0.0012	0.00024	1
Bromoform	ND		mg/kg	0.0049	0.00030	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00061	0.00020	1
1,3-Dichlorobenzene	ND		mg/kg	0.0024	0.00018	1
1,4-Dichlorobenzene	ND		mg/kg	0.0024	0.00021	1
1,2-Dichlorobenzene	0.00035	J	mg/kg	0.0024	0.00018	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0037	0.0012	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0024	0.00033	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0024	0.00039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	127		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-07
Client ID: B-9 (7.5-8)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 11:10
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/29/21 23:09
Analyst: NLK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0015	1
Chloromethane	ND		mg/kg	0.0065	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00054	1
Bromomethane	ND		mg/kg	0.0032	0.00094	1
Chloroethane	ND		mg/kg	0.0032	0.00073	1
Trichlorofluoromethane	ND		mg/kg	0.0065	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00038	1
Carbon disulfide	ND		mg/kg	0.016	0.0074	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0065	0.0011	1
Methylene chloride	ND		mg/kg	0.0081	0.0037	1
Acetone	0.021	J	mg/kg	0.040	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00022	1
Methyl Acetate	ND		mg/kg	0.0065	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0032	0.00032	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00023	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00028	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00022	1
Cyclohexane	ND		mg/kg	0.016	0.00088	1
Bromochloromethane	ND		mg/kg	0.0032	0.00033	1
Chloroform	0.00041	J	mg/kg	0.0024	0.00023	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00037	1
1,1,1-Trichloroethane	ND		mg/kg	0.00081	0.00027	1
2-Butanone	ND		mg/kg	0.016	0.0036	1
Benzene	ND		mg/kg	0.00081	0.00027	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00042	1
Methyl cyclohexane	ND		mg/kg	0.0065	0.00098	1
Trichloroethene	ND		mg/kg	0.00081	0.00022	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00020	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-07
Client ID: B-9 (7.5-8)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 11:10
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00081	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.057	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00081	0.00026	1
Toluene	ND		mg/kg	0.0016	0.00088	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0021	1
Tetrachloroethene	ND		mg/kg	0.00081	0.00032	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00044	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00081	0.00026	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00043	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00023	1
1,2-Dibromoethane	ND		mg/kg	0.00081	0.00047	1
2-Hexanone	ND		mg/kg	0.016	0.0019	1
Chlorobenzene	ND		mg/kg	0.00081	0.00020	1
Ethylbenzene	ND		mg/kg	0.0016	0.00023	1
p/m-Xylene	ND		mg/kg	0.0032	0.00091	1
o-Xylene	ND		mg/kg	0.0016	0.00047	1
Xylenes, Total	ND		mg/kg	0.0016	0.00047	1
Styrene	ND		mg/kg	0.0016	0.00032	1
Bromoform	ND		mg/kg	0.0065	0.00040	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00081	0.00027	1
1,3-Dichlorobenzene	ND		mg/kg	0.0032	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0032	0.00028	1
1,2-Dichlorobenzene	0.00059	J	mg/kg	0.0032	0.00023	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0048	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0032	0.00044	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0032	0.00052	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-08
Client ID: B-12 (4.5-5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 11:50
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 01:15
Analyst: NLK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.017	0.0015	1
Chloromethane	ND		mg/kg	0.0067	0.0016	1
Vinyl chloride	ND		mg/kg	0.0017	0.00056	1
Bromomethane	ND		mg/kg	0.0034	0.00098	1
Chloroethane	ND		mg/kg	0.0034	0.00076	1
Trichlorofluoromethane	ND		mg/kg	0.0067	0.0012	1
1,1-Dichloroethene	ND		mg/kg	0.0017	0.00040	1
Carbon disulfide	ND		mg/kg	0.017	0.0076	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0067	0.0012	1
Methylene chloride	ND		mg/kg	0.0084	0.0038	1
Acetone	0.033	J	mg/kg	0.042	0.017	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0025	0.00023	1
Methyl Acetate	ND		mg/kg	0.0067	0.0016	1
Methyl tert butyl ether	ND		mg/kg	0.0034	0.00034	1
1,1-Dichloroethane	ND		mg/kg	0.0017	0.00024	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00029	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0017	0.00023	1
Cyclohexane	ND		mg/kg	0.017	0.00091	1
Bromochloromethane	ND		mg/kg	0.0034	0.00034	1
Chloroform	0.00040	J	mg/kg	0.0025	0.00024	1
Carbon tetrachloride	ND		mg/kg	0.0017	0.00039	1
1,1,1-Trichloroethane	ND		mg/kg	0.00084	0.00028	1
2-Butanone	ND		mg/kg	0.017	0.0037	1
Benzene	ND		mg/kg	0.00084	0.00028	1
1,2-Dichloroethane	ND		mg/kg	0.0017	0.00043	1
Methyl cyclohexane	ND		mg/kg	0.0067	0.0010	1
Trichloroethene	ND		mg/kg	0.00084	0.00023	1
1,2-Dichloropropane	ND		mg/kg	0.0017	0.00021	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-08 Date Collected: 10/25/21 11:50

Client ID: B-12 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00084	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.059	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00084	0.00026	1
Toluene	0.0013	J	mg/kg	0.0017	0.00091	1
4-Methyl-2-pentanone	ND		mg/kg	0.017	0.0022	1
Tetrachloroethene	ND		mg/kg	0.00084	0.00033	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0017	0.00046	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00084	0.00026	1
1,1,2-Trichloroethane	ND		mg/kg	0.0017	0.00045	1
Dibromochloromethane	ND		mg/kg	0.0017	0.00024	1
1,2-Dibromoethane	ND		mg/kg	0.00084	0.00049	1
2-Hexanone	ND		mg/kg	0.017	0.0020	1
Chlorobenzene	ND		mg/kg	0.00084	0.00021	1
Ethylbenzene	0.0010	J	mg/kg	0.0017	0.00024	1
p/m-Xylene	ND		mg/kg	0.0034	0.00094	1
o-Xylene	ND		mg/kg	0.0017	0.00049	1
Xylenes, Total	ND		mg/kg	0.0017	0.00049	1
Styrene	ND		mg/kg	0.0017	0.00033	1
Bromoform	ND		mg/kg	0.0067	0.00041	1
Isopropylbenzene	ND		mg/kg	0.0017	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00084	0.00028	1
1,3-Dichlorobenzene	ND		mg/kg	0.0034	0.00025	1
1,4-Dichlorobenzene	ND		mg/kg	0.0034	0.00029	1
1,2-Dichlorobenzene	ND		mg/kg	0.0034	0.00024	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0050	0.0017	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0034	0.00046	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0034	0.00054	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	77		70-130
Dibromofluoromethane	107		70-130

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-09
Client ID: B-12 (5.5-6)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 11:55
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/29/21 23:34
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0015	1
Chloromethane	ND		mg/kg	0.0064	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00054	1
Bromomethane	ND		mg/kg	0.0032	0.00094	1
Chloroethane	ND		mg/kg	0.0032	0.00073	1
Trichlorofluoromethane	ND		mg/kg	0.0064	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00038	1
Carbon disulfide	ND		mg/kg	0.016	0.0073	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0064	0.0011	1
Methylene chloride	ND		mg/kg	0.0081	0.0037	1
Acetone	ND		mg/kg	0.040	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00022	1
Methyl Acetate	ND		mg/kg	0.0064	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0032	0.00032	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00023	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00028	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00022	1
Cyclohexane	ND		mg/kg	0.016	0.00088	1
Bromochloromethane	ND		mg/kg	0.0032	0.00033	1
Chloroform	0.00043	J	mg/kg	0.0024	0.00022	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00037	1
1,1,1-Trichloroethane	ND		mg/kg	0.00081	0.00027	1
2-Butanone	ND		mg/kg	0.016	0.0036	1
Benzene	ND		mg/kg	0.00081	0.00027	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00041	1
Methyl cyclohexane	ND		mg/kg	0.0064	0.00097	1
Trichloroethene	ND		mg/kg	0.00081	0.00022	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00020	1

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-09
Client ID: B-12 (5.5-6)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 11:55
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00081	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.056	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00081	0.00025	1
Toluene	ND		mg/kg	0.0016	0.00088	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0021	1
Tetrachloroethene	ND		mg/kg	0.00081	0.00032	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00044	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00081	0.00025	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00043	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00022	1
1,2-Dibromoethane	ND		mg/kg	0.00081	0.00047	1
2-Hexanone	ND		mg/kg	0.016	0.0019	1
Chlorobenzene	ND		mg/kg	0.00081	0.00020	1
Ethylbenzene	ND		mg/kg	0.0016	0.00023	1
p/m-Xylene	ND		mg/kg	0.0032	0.00090	1
o-Xylene	ND		mg/kg	0.0016	0.00047	1
Xylenes, Total	ND		mg/kg	0.0016	0.00047	1
Styrene	ND		mg/kg	0.0016	0.00032	1
Bromoform	ND		mg/kg	0.0064	0.00040	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00081	0.00027	1
1,3-Dichlorobenzene	ND		mg/kg	0.0032	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0032	0.00028	1
1,2-Dichlorobenzene	ND		mg/kg	0.0032	0.00023	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0048	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0032	0.00044	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0032	0.00052	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	117		70-130

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-10
Client ID: B-13 (4.5-5)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 12:50
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/29/21 23:59
Analyst: NLK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00094	1
Chloromethane	ND		mg/kg	0.0041	0.00096	1
Vinyl chloride	ND		mg/kg	0.0010	0.00034	1
Bromomethane	ND		mg/kg	0.0020	0.00060	1
Chloroethane	ND		mg/kg	0.0020	0.00046	1
Trichlorofluoromethane	ND		mg/kg	0.0041	0.00071	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024	1
Carbon disulfide	ND		mg/kg	0.010	0.0047	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0041	0.00071	1
Methylene chloride	ND		mg/kg	0.0051	0.0024	1
Acetone	ND		mg/kg	0.026	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014	1
Methyl Acetate	ND		mg/kg	0.0041	0.00098	1
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	ND		mg/kg	0.010	0.00056	1
Bromochloromethane	ND		mg/kg	0.0020	0.00021	1
Chloroform	0.00028	J	mg/kg	0.0015	0.00014	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00051	0.00017	1
2-Butanone	ND		mg/kg	0.010	0.0023	1
Benzene	ND		mg/kg	0.00051	0.00017	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1
Methyl cyclohexane	ND		mg/kg	0.0041	0.00062	1
Trichloroethene	ND		mg/kg	0.00051	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-10 Date Collected: 10/25/21 12:50

Client ID: B-13 (4.5-5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00051	0.00011	1
1,4-Dioxane	ND		mg/kg	0.082	0.036	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00051	0.00016	1
Toluene	ND		mg/kg	0.0010	0.00056	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013	1
Tetrachloroethene	ND		mg/kg	0.00051	0.00020	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00028	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00051	0.00016	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00014	1
1,2-Dibromoethane	ND		mg/kg	0.00051	0.00030	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00051	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00014	1
p/m-Xylene	ND		mg/kg	0.0020	0.00057	1
o-Xylene	ND		mg/kg	0.0010	0.00030	1
Xylenes, Total	ND		mg/kg	0.0010	0.00030	1
Styrene	ND		mg/kg	0.0010	0.00020	1
Bromoform	ND		mg/kg	0.0041	0.00025	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00051	0.00017	1
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015	1
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0031	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00028	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00033	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	120		70-130

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-11
Client ID: B-14 (9.5-10)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 12:40
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 00:25
Analyst: NLK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0011	1
Chloromethane	ND		mg/kg	0.0048	0.0011	1
Vinyl chloride	ND		mg/kg	0.0012	0.00040	1
Bromomethane	ND		mg/kg	0.0024	0.00069	1
Chloroethane	ND		mg/kg	0.0024	0.00054	1
Trichlorofluoromethane	ND		mg/kg	0.0048	0.00083	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00028	1
Carbon disulfide	ND		mg/kg	0.012	0.0054	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0048	0.00083	1
Methylene chloride	ND		mg/kg	0.0060	0.0027	1
Acetone	ND		mg/kg	0.030	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0018	0.00016	1
Methyl Acetate	ND		mg/kg	0.0048	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00017	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00021	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00016	1
Cyclohexane	ND		mg/kg	0.012	0.00065	1
Bromochloromethane	ND		mg/kg	0.0024	0.00024	1
Chloroform	0.00028	J	mg/kg	0.0018	0.00017	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00027	1
1,1,1-Trichloroethane	ND		mg/kg	0.00060	0.00020	1
2-Butanone	ND		mg/kg	0.012	0.0026	1
Benzene	ND		mg/kg	0.00060	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00031	1
Methyl cyclohexane	ND		mg/kg	0.0048	0.00072	1
Trichloroethene	ND		mg/kg	0.00060	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00015	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-11 Date Collected: 10/25/21 12:40

Client ID: B-14 (9.5-10) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00060	0.00013	1
1,4-Dioxane	ND		mg/kg	0.095	0.042	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00060	0.00019	1
Toluene	ND		mg/kg	0.0012	0.00065	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0015	1
Tetrachloroethene	ND		mg/kg	0.00060	0.00023	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00032	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00060	0.00019	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00032	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00017	1
1,2-Dibromoethane	ND		mg/kg	0.00060	0.00035	1
2-Hexanone	ND		mg/kg	0.012	0.0014	1
Chlorobenzene	ND		mg/kg	0.00060	0.00015	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	ND		mg/kg	0.0024	0.00067	1
o-Xylene	ND		mg/kg	0.0012	0.00035	1
Xylenes, Total	ND		mg/kg	0.0012	0.00035	1
Styrene	ND		mg/kg	0.0012	0.00023	1
Bromoform	ND		mg/kg	0.0048	0.00029	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00060	0.00020	1
1,3-Dichlorobenzene	ND		mg/kg	0.0024	0.00018	1
1,4-Dichlorobenzene	ND		mg/kg	0.0024	0.00020	1
1,2-Dichlorobenzene	ND		mg/kg	0.0024	0.00017	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0036	0.0012	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0024	0.00032	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0024	0.00038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-12
Client ID: B-15 (12-12.5)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 12:15
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/30/21 00:50
Analyst: NLK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0011	1
Chloromethane	ND		mg/kg	0.0048	0.0011	1
Vinyl chloride	ND		mg/kg	0.0012	0.00040	1
Bromomethane	ND		mg/kg	0.0024	0.00070	1
Chloroethane	ND		mg/kg	0.0024	0.00054	1
Trichlorofluoromethane	ND		mg/kg	0.0048	0.00084	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00029	1
Carbon disulfide	ND		mg/kg	0.012	0.0055	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0048	0.00084	1
Methylene chloride	ND		mg/kg	0.0060	0.0028	1
Acetone	ND		mg/kg	0.030	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0018	0.00016	1
Methyl Acetate	ND		mg/kg	0.0048	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00017	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00021	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00016	1
Cyclohexane	ND		mg/kg	0.012	0.00066	1
Bromochloromethane	ND		mg/kg	0.0024	0.00025	1
Chloroform	0.00032	J	mg/kg	0.0018	0.00017	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00028	1
1,1,1-Trichloroethane	ND		mg/kg	0.00060	0.00020	1
2-Butanone	ND		mg/kg	0.012	0.0027	1
Benzene	ND		mg/kg	0.00060	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00031	1
Methyl cyclohexane	ND		mg/kg	0.0048	0.00073	1
Trichloroethene	ND		mg/kg	0.00060	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00015	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-12 Date Collected: 10/25/21 12:15

Client ID: B-15 (12-12.5) Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00060	0.00013	1
1,4-Dioxane	ND		mg/kg	0.096	0.042	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00060	0.00019	1
Toluene	ND		mg/kg	0.0012	0.00065	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0015	1
Tetrachloroethene	ND		mg/kg	0.00060	0.00024	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00033	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00060	0.00019	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00032	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00017	1
1,2-Dibromoethane	ND		mg/kg	0.00060	0.00035	1
2-Hexanone	ND		mg/kg	0.012	0.0014	1
Chlorobenzene	ND		mg/kg	0.00060	0.00015	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	ND		mg/kg	0.0024	0.00068	1
o-Xylene	ND		mg/kg	0.0012	0.00035	1
Xylenes, Total	ND		mg/kg	0.0012	0.00035	1
Styrene	ND		mg/kg	0.0012	0.00024	1
Bromoform	ND		mg/kg	0.0048	0.00030	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00060	0.00020	1
1,3-Dichlorobenzene	ND		mg/kg	0.0024	0.00018	1
1,4-Dichlorobenzene	ND		mg/kg	0.0024	0.00021	1
1,2-Dichlorobenzene	ND		mg/kg	0.0024	0.00017	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0036	0.0012	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0024	0.00033	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0024	0.00039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	119		70-130

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 17:41
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,07-12 Batch: WG1565256-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	0.00027	J	mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 17:41
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,07-12 Batch: WG1565256-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/29/21 17:41
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,07-12 Batch: WG1565256-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	103		70-130

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/31/21 15:50
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06 Batch: WG1565512-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/31/21 15:50
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06 Batch: WG1565512-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	0.00034	J	mg/kg	0.0020	0.00032

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/31/21 15:50
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06 Batch: WG1565512-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	90		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST

Project Number: 30108678

Lab Number: L2158502

Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07-12 Batch: WG1565256-3 WG1565256-4								
Dichlorodifluoromethane	116		112		30-146	4		30
Chloromethane	122		119		52-130	2		30
Vinyl chloride	126		124		67-130	2		30
Bromomethane	147		140		57-147	5		30
Chloroethane	145		140		50-151	4		30
Trichlorofluoromethane	105		104		70-139	1		30
1,1-Dichloroethene	113		111		65-135	2		30
Carbon disulfide	89		88		59-130	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	106		105		50-139	1		30
Methylene chloride	105		103		70-130	2		30
Acetone	72		83		54-140	14		30
trans-1,2-Dichloroethene	110		110		70-130	0		30
Methyl Acetate	80		77		51-146	4		30
Methyl tert butyl ether	84		81		66-130	4		30
1,1-Dichloroethane	107		106		70-130	1		30
cis-1,2-Dichloroethene	106		105		70-130	1		30
Cyclohexane	108		108		59-142	0		30
Bromochloromethane	104		101		70-130	3		30
Chloroform	97		97		70-130	0		30
Carbon tetrachloride	101		102		70-130	1		30
1,1,1-Trichloroethane	106		106		70-130	0		30
2-Butanone	**64**	Q	**65**	Q	70-130	2		30
Benzene	106		106		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07-12 Batch: WG1565256-3 WG1565256-4								
1,2-Dichloroethane	90		90		70-130	0		30
Methyl cyclohexane	107		106		70-130	1		30
Trichloroethene	107		107		70-130	0		30
1,2-Dichloropropane	101		101		70-130	0		30
Bromodichloromethane	96		96		70-130	0		30
cis-1,3-Dichloropropene	102		102		70-130	0		30
Toluene	102		101		70-130	1		30
4-Methyl-2-pentanone	78		76		70-130	3		30
Tetrachloroethene	110		110		70-130	0		30
trans-1,3-Dichloropropene	95		94		70-130	1		30
1,1,2-Trichloroethane	93		92		70-130	1		30
Dibromochloromethane	99		98		70-130	1		30
1,2-Dibromoethane	84		82		70-130	2		30
2-Hexanone	**68**	Q	**65**	Q	70-130	5		30
Chlorobenzene	101		100		70-130	1		30
Ethylbenzene	102		102		70-130	0		30
p/m-Xylene	108		108		70-130	0		30
o-Xylene	97		96		70-130	1		30
Styrene	101		100		70-130	1		30
Bromoform	79		77		70-130	3		30
Isopropylbenzene	95		94		70-130	1		30
1,1,2,2-Tetrachloroethane	80		77		70-130	4		30
1,3-Dichlorobenzene	99		97		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST

Project Number: 30108678

Lab Number: L2158502

Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,07-12 Batch: WG1565256-3 WG1565256-4								
1,4-Dichlorobenzene	96		94		70-130	2		30
1,2-Dichlorobenzene	96		95		70-130	1		30
1,2-Dibromo-3-chloropropane	84		83		68-130	1		30
1,2,4-Trichlorobenzene	102		100		70-130	2		30
1,2,3-Trichlorobenzene	98		95		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	84		85		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	93		92		70-130
Dibromofluoromethane	91		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06 Batch: WG1565512-3 WG1565512-4								
Dichlorodifluoromethane	82		80		30-146	2		30
Chloromethane	109		105		52-130	4		30
Vinyl chloride	86		86		67-130	0		30
Bromomethane	59		60		57-147	2		30
Chloroethane	72		73		50-151	1		30
Trichlorofluoromethane	76		76		70-139	0		30
1,1-Dichloroethene	86		84		65-135	2		30
Carbon disulfide	70		69		59-130	1		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	88		87		50-139	1		30
Methylene chloride	82		81		70-130	1		30
Acetone	94		100		54-140	6		30
trans-1,2-Dichloroethene	85		84		70-130	1		30
Methyl Acetate	98		101		51-146	3		30
Methyl tert butyl ether	76		78		66-130	3		30
1,1-Dichloroethane	98		97		70-130	1		30
cis-1,2-Dichloroethene	84		84		70-130	0		30
Cyclohexane	108		107		59-142	1		30
Bromochloromethane	86		88		70-130	2		30
Chloroform	80		79		70-130	1		30
Carbon tetrachloride	86		86		70-130	0		30
1,1,1-Trichloroethane	84		83		70-130	1		30
2-Butanone	86		89		70-130	3		30
Benzene	84		83		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06 Batch: WG1565512-3 WG1565512-4								
1,2-Dichloroethane	90		92		70-130	2		30
Methyl cyclohexane	81		80		70-130	1		30
Trichloroethene	84		84		70-130	0		30
1,2-Dichloropropane	100		100		70-130	0		30
Bromodichloromethane	83		81		70-130	2		30
cis-1,3-Dichloropropene	89		89		70-130	0		30
Toluene	85		84		70-130	1		30
4-Methyl-2-pentanone	106		110		70-130	4		30
Tetrachloroethene	91		89		70-130	2		30
trans-1,3-Dichloropropene	88		90		70-130	2		30
1,1,2-Trichloroethane	87		88		70-130	1		30
Dibromochloromethane	92		93		70-130	1		30
1,2-Dibromoethane	83		85		70-130	2		30
2-Hexanone	95		102		70-130	7		30
Chlorobenzene	85		85		70-130	0		30
Ethylbenzene	84		84		70-130	0		30
p/m-Xylene	88		87		70-130	1		30
o-Xylene	87		87		70-130	0		30
Styrene	86		86		70-130	0		30
Bromoform	96		96		70-130	0		30
Isopropylbenzene	91		88		70-130	3		30
1,1,2,2-Tetrachloroethane	88		89		70-130	1		30
1,3-Dichlorobenzene	95		93		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST

Project Number: 30108678

Lab Number: L2158502

Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06 Batch: WG1565512-3 WG1565512-4								
1,4-Dichlorobenzene	93		92		70-130	1		30
1,2-Dichlorobenzene	94		92		70-130	2		30
1,2-Dibromo-3-chloropropane	82		83		68-130	1		30
1,2,4-Trichlorobenzene	101		101		70-130	0		30
1,2,3-Trichlorobenzene	97		98		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		98		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	95		93		70-130
Dibromofluoromethane	93		95		70-130

SEMIVOLATILES

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-13
Client ID: COMP-1
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:15
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 05:12
Analyst: SZ
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.29	0.059	1
Phenol	ND		mg/kg	0.22	0.033	1
2-Chlorophenol	ND		mg/kg	0.22	0.026	1
2-Methylphenol	ND		mg/kg	0.22	0.034	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.26	0.037	1
Acetophenone	ND		mg/kg	0.22	0.027	1
1,4-Dioxane	ND		mg/kg	0.033	0.0099	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.31	0.034	1
Hexachloroethane	ND		mg/kg	0.17	0.035	1
Nitrobenzene	ND		mg/kg	0.20	0.032	1
Isophorone	ND		mg/kg	0.20	0.028	1
2-Nitrophenol	ND		mg/kg	0.47	0.082	1
2,4-Dimethylphenol	ND		mg/kg	0.22	0.072	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.24	0.022	1
2,4-Dichlorophenol	ND		mg/kg	0.20	0.035	1
Naphthalene	ND		mg/kg	0.22	0.026	1
4-Chloroaniline	ND		mg/kg	0.22	0.040	1
Hexachlorobutadiene	ND		mg/kg	0.22	0.032	1
Caprolactam	0.16	J	mg/kg	0.22	0.066	1
p-Chloro-m-cresol	ND		mg/kg	0.22	0.032	1
2-Methylnaphthalene	ND		mg/kg	0.26	0.026	1
Hexachlorocyclopentadiene	ND		mg/kg	0.62	0.20	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.22	0.023	1
2,4,6-Trichlorophenol	ND		mg/kg	0.13	0.041	1
2,4,5-Trichlorophenol	ND		mg/kg	0.22	0.042	1
Biphenyl	ND		mg/kg	0.50	0.051	1
2-Chloronaphthalene	ND		mg/kg	0.22	0.022	1
2-Nitroaniline	ND		mg/kg	0.22	0.042	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-13 Date Collected: 10/25/21 15:15

Client ID: COMP-1 Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.22	0.046	1
2,6-Dinitrotoluene	ND		mg/kg	0.22	0.037	1
Acenaphthylene	ND		mg/kg	0.17	0.034	1
3-Nitroaniline	ND		mg/kg	0.22	0.041	1
Acenaphthene	ND		mg/kg	0.17	0.022	1
2,4-Dinitrophenol	ND		mg/kg	1.0	0.10	1
4-Nitrophenol	ND		mg/kg	0.30	0.089	1
2,4-Dinitrotoluene	ND		mg/kg	0.22	0.044	1
Dibenzofuran	ND		mg/kg	0.22	0.021	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.22	0.044	1
Diethyl phthalate	ND		mg/kg	0.22	0.020	1
Fluorene	ND		mg/kg	0.22	0.021	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.22	0.023	1
4-Nitroaniline	ND		mg/kg	0.22	0.090	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.57	0.10	1
NDPA/DPA	ND		mg/kg	0.17	0.025	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.22	0.033	1
Hexachlorobenzene	ND		mg/kg	0.13	0.024	1
Pentachlorophenol	ND		mg/kg	0.17	0.048	1
Atrazine	ND		mg/kg	0.17	0.076	1
Phenanthrene	0.14		mg/kg	0.13	0.026	1
Anthracene	ND		mg/kg	0.13	0.042	1
Carbazole	ND		mg/kg	0.22	0.021	1
Di-n-butylphthalate	ND		mg/kg	0.22	0.041	1
Fluoranthene	0.34		mg/kg	0.13	0.025	1
Pyrene	0.32		mg/kg	0.13	0.022	1
Butyl benzyl phthalate	ND		mg/kg	0.22	0.055	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.22	0.058	1
Benzo(a)anthracene	0.23		mg/kg	0.13	0.024	1
Chrysene	0.22		mg/kg	0.13	0.023	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.22	0.075	1
Di-n-octylphthalate	ND		mg/kg	0.22	0.074	1
Benzo(b)fluoranthene	0.28		mg/kg	0.13	0.037	1
Benzo(k)fluoranthene	0.099	J	mg/kg	0.13	0.035	1
Benzo(a)pyrene	0.23		mg/kg	0.17	0.053	1
Indeno(1,2,3-cd)pyrene	0.15	J	mg/kg	0.17	0.030	1
Dibenzo(a,h)anthracene	0.036	J	mg/kg	0.13	0.025	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-13
Client ID: COMP-1
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:15
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.14	J	mg/kg	0.17	0.026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	81		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-13
Client ID: COMP-1
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:15
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 10/28/21 18:22
Analyst: WR
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.044	0.012	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.044	0.011	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	63		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-14
Client ID: COMP-2
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:20
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 06:24
Analyst: SZ
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.25	0.052	1
Phenol	ND		mg/kg	0.19	0.029	1
2-Chlorophenol	ND		mg/kg	0.19	0.023	1
2-Methylphenol	ND		mg/kg	0.19	0.030	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.23	0.033	1
Acetophenone	ND		mg/kg	0.19	0.024	1
1,4-Dioxane	ND		mg/kg	0.029	0.0088	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.28	0.030	1
Hexachloroethane	ND		mg/kg	0.15	0.031	1
Nitrobenzene	ND		mg/kg	0.17	0.028	1
Isophorone	ND		mg/kg	0.17	0.025	1
2-Nitrophenol	ND		mg/kg	0.42	0.072	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.064	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.21	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.031	1
Naphthalene	0.048	J	mg/kg	0.19	0.023	1
4-Chloroaniline	ND		mg/kg	0.19	0.035	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.028	1
Caprolactam	ND		mg/kg	0.19	0.058	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.029	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.023	1
Hexachlorocyclopentadiene	ND		mg/kg	0.55	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.036	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.037	1
Biphenyl	ND		mg/kg	0.44	0.045	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.019	1
2-Nitroaniline	ND		mg/kg	0.19	0.037	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-14 Date Collected: 10/25/21 15:20

Client ID: COMP-2 Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.19	0.040	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.033	1
Acenaphthylene	ND		mg/kg	0.15	0.030	1
3-Nitroaniline	ND		mg/kg	0.19	0.036	1
Acenaphthene	0.022	J	mg/kg	0.15	0.020	1
2,4-Dinitrophenol	ND		mg/kg	0.92	0.090	1
4-Nitrophenol	ND		mg/kg	0.27	0.078	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.038	1
Dibenzofuran	ND		mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.039	1
Diethyl phthalate	ND		mg/kg	0.19	0.018	1
Fluorene	0.021	J	mg/kg	0.19	0.019	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.021	1
4-Nitroaniline	ND		mg/kg	0.19	0.080	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.50	0.092	1
NDPA/DPA	ND		mg/kg	0.15	0.022	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.029	1
Hexachlorobenzene	ND		mg/kg	0.12	0.022	1
Pentachlorophenol	ND		mg/kg	0.15	0.042	1
Atrazine	ND		mg/kg	0.15	0.067	1
Phenanthrene	0.23		mg/kg	0.12	0.023	1
Anthracene	0.049	J	mg/kg	0.12	0.038	1
Carbazole	0.030	J	mg/kg	0.19	0.019	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.036	1
Fluoranthene	0.38		mg/kg	0.12	0.022	1
Pyrene	0.34		mg/kg	0.12	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.048	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.051	1
Benzo(a)anthracene	0.22		mg/kg	0.12	0.022	1
Chrysene	0.21		mg/kg	0.12	0.020	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.19	0.067	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.065	1
Benzo(b)fluoranthene	0.25		mg/kg	0.12	0.032	1
Benzo(k)fluoranthene	0.098	J	mg/kg	0.12	0.031	1
Benzo(a)pyrene	0.19		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	0.12	J	mg/kg	0.15	0.027	1
Dibenzo(a,h)anthracene	0.032	J	mg/kg	0.12	0.022	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-14
Client ID: COMP-2
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:20
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.12	J	mg/kg	0.15	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	71		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-14
Client ID: COMP-2
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:20
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 10/28/21 18:39
Analyst: WR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.038	0.011	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.038	0.010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	54		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-15
Client ID: COMP-3
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 03:35
Analyst: SZ
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.25	0.051	1
Phenol	ND		mg/kg	0.19	0.028	1
2-Chlorophenol	ND		mg/kg	0.19	0.022	1
2-Methylphenol	ND		mg/kg	0.19	0.029	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.23	0.032	1
Acetophenone	ND		mg/kg	0.19	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0086	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.030	1
Hexachloroethane	ND		mg/kg	0.15	0.031	1
Nitrobenzene	ND		mg/kg	0.17	0.028	1
Isophorone	ND		mg/kg	0.17	0.024	1
2-Nitrophenol	ND		mg/kg	0.41	0.071	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.062	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.030	1
Naphthalene	ND		mg/kg	0.19	0.023	1
4-Chloroaniline	ND		mg/kg	0.19	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.028	1
Caprolactam	ND		mg/kg	0.19	0.058	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.028	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.023	1
Hexachlorocyclopentadiene	ND		mg/kg	0.54	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.036	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.036	1
Biphenyl	ND		mg/kg	0.43	0.044	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.019	1
2-Nitroaniline	ND		mg/kg	0.19	0.036	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-15 Date Collected: 10/25/21 15:25

Client ID: COMP-3 Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.19	0.040	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.032	1
Acenaphthylene	ND		mg/kg	0.15	0.029	1
3-Nitroaniline	ND		mg/kg	0.19	0.036	1
Acenaphthene	0.023	J	mg/kg	0.15	0.020	1
2,4-Dinitrophenol	ND		mg/kg	0.91	0.088	1
4-Nitrophenol	ND		mg/kg	0.26	0.077	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.038	1
Dibenzofuran	0.019	J	mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.038	1
Diethyl phthalate	ND		mg/kg	0.19	0.018	1
Fluorene	0.027	J	mg/kg	0.19	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.020	1
4-Nitroaniline	ND		mg/kg	0.19	0.078	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.49	0.091	1
NDPA/DPA	ND		mg/kg	0.15	0.022	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.029	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.042	1
Atrazine	ND		mg/kg	0.15	0.066	1
Phenanthrene	0.24		mg/kg	0.11	0.023	1
Anthracene	0.062	J	mg/kg	0.11	0.037	1
Carbazole	0.033	J	mg/kg	0.19	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.036	1
Fluoranthene	0.35		mg/kg	0.11	0.022	1
Pyrene	0.29		mg/kg	0.11	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.048	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.050	1
Benzo(a)anthracene	0.17		mg/kg	0.11	0.021	1
Chrysene	0.16		mg/kg	0.11	0.020	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.19	0.065	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.064	1
Benzo(b)fluoranthene	0.20		mg/kg	0.11	0.032	1
Benzo(k)fluoranthene	0.070	J	mg/kg	0.11	0.030	1
Benzo(a)pyrene	0.16		mg/kg	0.15	0.046	1
Indeno(1,2,3-cd)pyrene	0.10	J	mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	0.025	J	mg/kg	0.11	0.022	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-15
Client ID: COMP-3
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.092	J	mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	73		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-15
Client ID: COMP-3
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 10/28/21 18:56
Analyst: WR
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.038	0.010	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.038	0.0099	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	54		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-16
Client ID: COMP-4
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:30
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 03:11
Analyst: SZ
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.050	1
Phenol	ND		mg/kg	0.19	0.028	1
2-Chlorophenol	ND		mg/kg	0.19	0.022	1
2-Methylphenol	ND		mg/kg	0.19	0.029	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.032	1
Acetophenone	ND		mg/kg	0.19	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0085	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.029	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	ND		mg/kg	0.17	0.028	1
Isophorone	ND		mg/kg	0.17	0.024	1
2-Nitrophenol	ND		mg/kg	0.40	0.070	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.061	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.030	1
Naphthalene	ND		mg/kg	0.19	0.023	1
4-Chloroaniline	ND		mg/kg	0.19	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.027	1
Caprolactam	ND		mg/kg	0.19	0.057	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.028	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.53	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.035	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.036	1
Biphenyl	ND		mg/kg	0.42	0.043	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.018	1
2-Nitroaniline	ND		mg/kg	0.19	0.036	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-16 Date Collected: 10/25/21 15:30

Client ID: COMP-4 Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.19	0.039	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.032	1
Acenaphthylene	ND		mg/kg	0.15	0.029	1
3-Nitroaniline	ND		mg/kg	0.19	0.035	1
Acenaphthene	0.049	J	mg/kg	0.15	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.89	0.087	1
4-Nitrophenol	ND		mg/kg	0.26	0.076	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.037	1
Dibenzofuran	0.026	J	mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.038	1
Diethyl phthalate	ND		mg/kg	0.19	0.017	1
Fluorene	0.052	J	mg/kg	0.19	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.020	1
4-Nitroaniline	ND		mg/kg	0.19	0.077	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.48	0.089	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.041	1
Atrazine	ND		mg/kg	0.15	0.065	1
Phenanthrene	0.51		mg/kg	0.11	0.023	1
Anthracene	0.14		mg/kg	0.11	0.036	1
Carbazole	0.056	J	mg/kg	0.19	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.035	1
Fluoranthene	0.88		mg/kg	0.11	0.021	1
Pyrene	0.74		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.047	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.050	1
Benzo(a)anthracene	0.42		mg/kg	0.11	0.021	1
Chrysene	0.37		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.19	0.064	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.063	1
Benzo(b)fluoranthene	0.52		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	0.18		mg/kg	0.11	0.030	1
Benzo(a)pyrene	0.42		mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	0.28		mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	0.057	J	mg/kg	0.11	0.022	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-16
Client ID: COMP-4
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:30
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.25		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	73		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-16
Client ID: COMP-4
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:30
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 10/28/21 19:12
Analyst: WR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.037	0.010	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.037	0.0098	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	56		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-17
Client ID: COMP-5
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 06:00
Analyst: SZ
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.25	0.050	1
Phenol	ND		mg/kg	0.19	0.028	1
2-Chlorophenol	ND		mg/kg	0.19	0.022	1
2-Methylphenol	ND		mg/kg	0.19	0.029	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.032	1
Acetophenone	ND		mg/kg	0.19	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0085	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.029	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	ND		mg/kg	0.17	0.028	1
Isophorone	ND		mg/kg	0.17	0.024	1
2-Nitrophenol	ND		mg/kg	0.40	0.070	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.062	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.030	1
Naphthalene	ND		mg/kg	0.19	0.023	1
4-Chloroaniline	ND		mg/kg	0.19	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.027	1
Caprolactam	ND		mg/kg	0.19	0.057	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.028	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.53	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.035	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.036	1
Biphenyl	0.062	J	mg/kg	0.42	0.043	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.018	1
2-Nitroaniline	ND		mg/kg	0.19	0.036	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-17 Date Collected: 10/25/21 15:35

Client ID: COMP-5 Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.19	0.039	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.032	1
Acenaphthylene	ND		mg/kg	0.15	0.029	1
3-Nitroaniline	ND		mg/kg	0.19	0.035	1
Acenaphthene	0.16		mg/kg	0.15	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.90	0.087	1
4-Nitrophenol	ND		mg/kg	0.26	0.076	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.037	1
Dibenzofuran	0.098	J	mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.038	1
Diethyl phthalate	ND		mg/kg	0.19	0.017	1
Fluorene	0.23		mg/kg	0.19	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.020	1
4-Nitroaniline	ND		mg/kg	0.19	0.077	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.48	0.090	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.041	1
Atrazine	ND		mg/kg	0.15	0.065	1
Phenanthrene	0.31		mg/kg	0.11	0.023	1
Anthracene	0.15		mg/kg	0.11	0.036	1
Carbazole	ND		mg/kg	0.19	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.035	1
Fluoranthene	0.69		mg/kg	0.11	0.021	1
Pyrene	0.62		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.047	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.050	1
Benzo(a)anthracene	0.29		mg/kg	0.11	0.021	1
Chrysene	0.28		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.19	0.065	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.064	1
Benzo(b)fluoranthene	0.37		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	0.11		mg/kg	0.11	0.030	1
Benzo(a)pyrene	0.26		mg/kg	0.15	0.046	1
Indeno(1,2,3-cd)pyrene	0.17		mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	0.041	J	mg/kg	0.11	0.022	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-17
Client ID: COMP-5
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.15		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	103		25-120
Phenol-d6	109		10-120
Nitrobenzene-d5	112		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	104		10-136
4-Terphenyl-d14	90		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-17
Client ID: COMP-5
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 10/28/21 19:29
Analyst: WR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.037	0.010	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.037	0.0098	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	96		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	64		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-18
Client ID: COMP-6
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:40
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 05:36
Analyst: SZ
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.050	1
Phenol	ND		mg/kg	0.18	0.028	1
2-Chlorophenol	ND		mg/kg	0.18	0.022	1
2-Methylphenol	ND		mg/kg	0.18	0.029	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.032	1
Acetophenone	ND		mg/kg	0.18	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0084	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.029	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	ND		mg/kg	0.17	0.027	1
Isophorone	ND		mg/kg	0.17	0.024	1
2-Nitrophenol	ND		mg/kg	0.40	0.070	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.061	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.030	1
Naphthalene	ND		mg/kg	0.18	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.027	1
Caprolactam	ND		mg/kg	0.18	0.056	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.028	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.53	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.035	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.035	1
Biphenyl	ND		mg/kg	0.42	0.043	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.036	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-18 Date Collected: 10/25/21 15:40

Client ID: COMP-6 Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.18	0.039	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.032	1
Acenaphthylene	ND		mg/kg	0.15	0.028	1
3-Nitroaniline	ND		mg/kg	0.18	0.035	1
Acenaphthene	0.034	J	mg/kg	0.15	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.89	0.086	1
4-Nitrophenol	ND		mg/kg	0.26	0.075	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.037	1
Dibenzofuran	0.026	J	mg/kg	0.18	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.037	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Fluorene	0.046	J	mg/kg	0.18	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.020	1
4-Nitroaniline	ND		mg/kg	0.18	0.076	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.48	0.089	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.041	1
Atrazine	ND		mg/kg	0.15	0.065	1
Phenanthrene	0.43		mg/kg	0.11	0.022	1
Anthracene	0.12		mg/kg	0.11	0.036	1
Carbazole	0.052	J	mg/kg	0.18	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.035	1
Fluoranthene	0.70		mg/kg	0.11	0.021	1
Pyrene	0.58		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.047	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.049	1
Benzo(a)anthracene	0.33		mg/kg	0.11	0.021	1
Chrysene	0.30		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.064	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.063	1
Benzo(b)fluoranthene	0.37		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	0.15		mg/kg	0.11	0.030	1
Benzo(a)pyrene	0.29		mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	0.19		mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	0.044	J	mg/kg	0.11	0.021	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-18
Client ID: COMP-6
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:40
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.17		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	78		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-18
Client ID: COMP-6
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:40
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 10/28/21 19:45
Analyst: WR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.037	0.010	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.037	0.0097	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	61		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-19
Client ID: COMP-7
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 09:14
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.049	1
Phenol	ND		mg/kg	0.18	0.027	1
2-Chlorophenol	ND		mg/kg	0.18	0.021	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.031	1
Acetophenone	ND		mg/kg	0.18	0.022	1
1,4-Dioxane	ND		mg/kg	0.027	0.0083	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.028	1
Hexachloroethane	ND		mg/kg	0.14	0.029	1
Nitrobenzene	ND		mg/kg	0.16	0.027	1
Isophorone	ND		mg/kg	0.16	0.024	1
2-Nitrophenol	ND		mg/kg	0.39	0.068	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.060	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.029	1
Naphthalene	0.029	J	mg/kg	0.18	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.033	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.027	1
Caprolactam	ND		mg/kg	0.18	0.055	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.52	0.16	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.034	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.035	1
Biphenyl	ND		mg/kg	0.41	0.042	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.035	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-19 Date Collected: 10/25/21 15:45

Client ID: COMP-7 Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.18	0.038	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.031	1
Acenaphthylene	ND		mg/kg	0.14	0.028	1
3-Nitroaniline	ND		mg/kg	0.18	0.034	1
Acenaphthene	0.035	J	mg/kg	0.14	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.87	0.085	1
4-Nitrophenol	ND		mg/kg	0.25	0.074	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.036	1
Dibenzofuran	ND		mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.037	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Fluorene	0.028	J	mg/kg	0.18	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.019	1
4-Nitroaniline	ND		mg/kg	0.18	0.075	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.47	0.087	1
NDPA/DPA	ND		mg/kg	0.14	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.020	1
Pentachlorophenol	ND		mg/kg	0.14	0.040	1
Atrazine	ND		mg/kg	0.14	0.064	1
Phenanthrene	0.42		mg/kg	0.11	0.022	1
Anthracene	0.11		mg/kg	0.11	0.035	1
Carbazole	0.030	J	mg/kg	0.18	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.034	1
Fluoranthene	0.84		mg/kg	0.11	0.021	1
Pyrene	0.75		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.046	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.048	1
Benzo(a)anthracene	0.40		mg/kg	0.11	0.020	1
Chrysene	0.37		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.063	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.062	1
Benzo(b)fluoranthene	0.43		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	0.13		mg/kg	0.11	0.029	1
Benzo(a)pyrene	0.35		mg/kg	0.14	0.044	1
Indeno(1,2,3-cd)pyrene	0.26		mg/kg	0.14	0.025	1
Dibenzo(a,h)anthracene	0.065	J	mg/kg	0.11	0.021	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-19
Client ID: COMP-7
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.31		mg/kg	0.14	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	64		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-19
Client ID: COMP-7
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 10/28/21 20:01
Analyst: WR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.036	0.010	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.036	0.0095	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	48		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-20
Client ID: COMP-8
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:50
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 08:50
Analyst: SZ
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.25	0.050	1
Phenol	ND		mg/kg	0.19	0.028	1
2-Chlorophenol	ND		mg/kg	0.19	0.022	1
2-Methylphenol	ND		mg/kg	0.19	0.029	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.032	1
Acetophenone	ND		mg/kg	0.19	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0085	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.029	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	0.62		mg/kg	0.17	0.028	1
Isophorone	ND		mg/kg	0.17	0.024	1
2-Nitrophenol	ND		mg/kg	0.40	0.070	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.062	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.030	1
Naphthalene	ND		mg/kg	0.19	0.023	1
4-Chloroaniline	ND		mg/kg	0.19	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.027	1
Caprolactam	ND		mg/kg	0.19	0.057	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.028	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.53	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.035	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.036	1
Biphenyl	0.17	J	mg/kg	0.42	0.043	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.018	1
2-Nitroaniline	ND		mg/kg	0.19	0.036	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-20 Date Collected: 10/25/21 15:50

Client ID: COMP-8 Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.19	0.039	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.032	1
Acenaphthylene	ND		mg/kg	0.15	0.029	1
3-Nitroaniline	ND		mg/kg	0.19	0.035	1
Acenaphthene	0.18		mg/kg	0.15	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.90	0.087	1
4-Nitrophenol	ND		mg/kg	0.26	0.076	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.037	1
Dibenzofuran	0.10	J	mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.038	1
Diethyl phthalate	ND		mg/kg	0.19	0.017	1
Fluorene	0.28		mg/kg	0.19	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.020	1
4-Nitroaniline	ND		mg/kg	0.19	0.077	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.48	0.090	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.041	1
Atrazine	ND		mg/kg	0.15	0.065	1
Phenanthrene	0.56		mg/kg	0.11	0.023	1
Anthracene	0.13		mg/kg	0.11	0.036	1
Carbazole	0.044	J	mg/kg	0.19	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.035	1
Fluoranthene	0.57		mg/kg	0.11	0.021	1
Pyrene	0.52		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.047	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.050	1
Benzo(a)anthracene	0.25		mg/kg	0.11	0.021	1
Chrysene	0.25		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	0.095	J	mg/kg	0.19	0.065	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.064	1
Benzo(b)fluoranthene	0.30		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	0.12		mg/kg	0.11	0.030	1
Benzo(a)pyrene	0.21		mg/kg	0.15	0.046	1
Indeno(1,2,3-cd)pyrene	0.16		mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	0.037	J	mg/kg	0.11	0.022	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-20
Client ID: COMP-8
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:50
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.14	J	mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	114		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	90		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-20
Client ID: COMP-8
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:50
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 10/28/21 20:18
Analyst: WR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.037	0.010	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.037	0.0098	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	107		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	66		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-21
Client ID: COMP-9
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:55
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 04:24
Analyst: SZ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.24	0.050	1
Phenol	ND		mg/kg	0.18	0.028	1
2-Chlorophenol	ND		mg/kg	0.18	0.022	1
2-Methylphenol	ND		mg/kg	0.18	0.028	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.031	1
Acetophenone	ND		mg/kg	0.18	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0084	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.26	0.029	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	ND		mg/kg	0.16	0.027	1
Isophorone	ND		mg/kg	0.16	0.024	1
2-Nitrophenol	ND		mg/kg	0.40	0.069	1
2,4-Dimethylphenol	ND		mg/kg	0.18	0.061	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.018	1
2,4-Dichlorophenol	ND		mg/kg	0.16	0.030	1
Naphthalene	0.023	J	mg/kg	0.18	0.022	1
4-Chloroaniline	ND		mg/kg	0.18	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.18	0.027	1
Caprolactam	ND		mg/kg	0.18	0.056	1
p-Chloro-m-cresol	ND		mg/kg	0.18	0.027	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.53	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.18	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.035	1
2,4,5-Trichlorophenol	ND		mg/kg	0.18	0.035	1
Biphenyl	ND		mg/kg	0.42	0.043	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.018	1
2-Nitroaniline	ND		mg/kg	0.18	0.036	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-21 Date Collected: 10/25/21 15:55

Client ID: COMP-9 Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.18	0.039	1
2,6-Dinitrotoluene	ND		mg/kg	0.18	0.032	1
Acenaphthylene	ND		mg/kg	0.15	0.028	1
3-Nitroaniline	ND		mg/kg	0.18	0.035	1
Acenaphthene	0.045	J	mg/kg	0.15	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.88	0.086	1
4-Nitrophenol	ND		mg/kg	0.26	0.075	1
2,4-Dinitrotoluene	ND		mg/kg	0.18	0.037	1
Dibenzofuran	0.030	J	mg/kg	0.18	0.017	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.18	0.037	1
Diethyl phthalate	ND		mg/kg	0.18	0.017	1
Fluorene	0.058	J	mg/kg	0.18	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.18	0.020	1
4-Nitroaniline	ND		mg/kg	0.18	0.076	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.48	0.088	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.18	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.040	1
Atrazine	ND		mg/kg	0.15	0.064	1
Phenanthrene	0.30		mg/kg	0.11	0.022	1
Anthracene	0.12		mg/kg	0.11	0.036	1
Carbazole	0.042	J	mg/kg	0.18	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.18	0.035	1
Fluoranthene	0.66		mg/kg	0.11	0.021	1
Pyrene	0.56		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.18	0.046	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.18	0.049	1
Benzo(a)anthracene	0.28		mg/kg	0.11	0.021	1
Chrysene	0.27		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.18	0.064	1
Di-n-octylphthalate	ND		mg/kg	0.18	0.063	1
Benzo(b)fluoranthene	0.35		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	0.13		mg/kg	0.11	0.029	1
Benzo(a)pyrene	0.27		mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	0.18		mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	0.040	J	mg/kg	0.11	0.021	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-21
Client ID: COMP-9
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:55
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.17		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	68		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-21
Client ID: COMP-9
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:55
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 10/28/21 20:34
Analyst: WR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.037	0.010	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.037	0.0096	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	52		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-22
Client ID: COMP-10
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 16:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 07:13
Analyst: SZ
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.26	0.053	1
Phenol	ND		mg/kg	0.20	0.030	1
2-Chlorophenol	ND		mg/kg	0.20	0.023	1
2-Methylphenol	ND		mg/kg	0.20	0.030	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.23	0.033	1
Acetophenone	ND		mg/kg	0.20	0.024	1
1,4-Dioxane	ND		mg/kg	0.029	0.0089	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.28	0.031	1
Hexachloroethane	ND		mg/kg	0.16	0.032	1
Nitrobenzene	ND		mg/kg	0.18	0.029	1
Isophorone	ND		mg/kg	0.18	0.025	1
2-Nitrophenol	ND		mg/kg	0.42	0.073	1
2,4-Dimethylphenol	ND		mg/kg	0.20	0.064	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.21	0.020	1
2,4-Dichlorophenol	ND		mg/kg	0.18	0.031	1
Naphthalene	0.037	J	mg/kg	0.20	0.024	1
4-Chloroaniline	ND		mg/kg	0.20	0.036	1
Hexachlorobutadiene	ND		mg/kg	0.20	0.029	1
Caprolactam	ND		mg/kg	0.20	0.059	1
p-Chloro-m-cresol	ND		mg/kg	0.20	0.029	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.024	1
Hexachlorocyclopentadiene	ND		mg/kg	0.56	0.18	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.20	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.12	0.037	1
2,4,5-Trichlorophenol	ND		mg/kg	0.20	0.037	1
Biphenyl	ND		mg/kg	0.44	0.045	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.019	1
2-Nitroaniline	ND		mg/kg	0.20	0.038	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-22 Date Collected: 10/25/21 16:00

Client ID: COMP-10 Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.20	0.041	1
2,6-Dinitrotoluene	ND		mg/kg	0.20	0.034	1
Acenaphthylene	ND		mg/kg	0.16	0.030	1
3-Nitroaniline	ND		mg/kg	0.20	0.037	1
Acenaphthene	0.023	J	mg/kg	0.16	0.020	1
2,4-Dinitrophenol	ND		mg/kg	0.94	0.091	1
4-Nitrophenol	ND		mg/kg	0.27	0.080	1
2,4-Dinitrotoluene	ND		mg/kg	0.20	0.039	1
Dibenzofuran	0.018	J	mg/kg	0.20	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.20	0.039	1
Diethyl phthalate	ND		mg/kg	0.20	0.018	1
Fluorene	0.025	J	mg/kg	0.20	0.019	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.20	0.021	1
4-Nitroaniline	ND		mg/kg	0.20	0.081	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.51	0.094	1
NDPA/DPA	ND		mg/kg	0.16	0.022	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.20	0.030	1
Hexachlorobenzene	ND		mg/kg	0.12	0.022	1
Pentachlorophenol	ND		mg/kg	0.16	0.043	1
Atrazine	ND		mg/kg	0.16	0.068	1
Phenanthrene	0.25		mg/kg	0.12	0.024	1
Anthracene	0.065	J	mg/kg	0.12	0.038	1
Carbazole	0.039	J	mg/kg	0.20	0.019	1
Di-n-butylphthalate	ND		mg/kg	0.20	0.037	1
Fluoranthene	0.44		mg/kg	0.12	0.022	1
Pyrene	0.38		mg/kg	0.12	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.20	0.049	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.20	0.052	1
Benzo(a)anthracene	0.24		mg/kg	0.12	0.022	1
Chrysene	0.22		mg/kg	0.12	0.020	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.20	0.068	1
Di-n-octylphthalate	ND		mg/kg	0.20	0.066	1
Benzo(b)fluoranthene	0.26		mg/kg	0.12	0.033	1
Benzo(k)fluoranthene	0.11	J	mg/kg	0.12	0.031	1
Benzo(a)pyrene	0.20		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	0.14	J	mg/kg	0.16	0.027	1
Dibenzo(a,h)anthracene	0.034	J	mg/kg	0.12	0.022	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-22
Client ID: COMP-10
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 16:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.12	J	mg/kg	0.16	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	65		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-22
Client ID: COMP-10
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 16:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 10/28/21 20:51
Analyst: WR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.039	0.011	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.039	0.010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	49		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-23
Client ID: COMP-11
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 16:05
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 08:01
Analyst: SZ
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.25	0.051	1
Phenol	ND		mg/kg	0.19	0.029	1
2-Chlorophenol	ND		mg/kg	0.19	0.022	1
2-Methylphenol	ND		mg/kg	0.19	0.030	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.23	0.032	1
Acetophenone	ND		mg/kg	0.19	0.024	1
1,4-Dioxane	ND		mg/kg	0.028	0.0087	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.030	1
Hexachloroethane	ND		mg/kg	0.15	0.031	1
Nitrobenzene	ND		mg/kg	0.17	0.028	1
Isophorone	ND		mg/kg	0.17	0.025	1
2-Nitrophenol	ND		mg/kg	0.41	0.072	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.063	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.031	1
Naphthalene	0.027	J	mg/kg	0.19	0.023	1
4-Chloroaniline	ND		mg/kg	0.19	0.035	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.028	1
Caprolactam	ND		mg/kg	0.19	0.058	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.028	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.023	1
Hexachlorocyclopentadiene	ND		mg/kg	0.54	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.020	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.036	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.036	1
Biphenyl	ND		mg/kg	0.43	0.044	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.019	1
2-Nitroaniline	ND		mg/kg	0.19	0.037	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-23 Date Collected: 10/25/21 16:05

Client ID: COMP-11 Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.19	0.040	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.033	1
Acenaphthylene	0.033	J	mg/kg	0.15	0.029	1
3-Nitroaniline	ND		mg/kg	0.19	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.020	1
2,4-Dinitrophenol	ND		mg/kg	0.91	0.089	1
4-Nitrophenol	ND		mg/kg	0.27	0.078	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.038	1
Dibenzofuran	ND		mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.038	1
Diethyl phthalate	ND		mg/kg	0.19	0.018	1
Fluorene	0.020	J	mg/kg	0.19	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.020	1
4-Nitroaniline	ND		mg/kg	0.19	0.079	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.50	0.091	1
NDPA/DPA	ND		mg/kg	0.15	0.022	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.029	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.042	1
Atrazine	ND		mg/kg	0.15	0.067	1
Phenanthrene	0.26		mg/kg	0.11	0.023	1
Anthracene	0.068	J	mg/kg	0.11	0.037	1
Carbazole	0.032	J	mg/kg	0.19	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.036	1
Fluoranthene	0.54		mg/kg	0.11	0.022	1
Pyrene	0.46		mg/kg	0.11	0.019	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.048	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.051	1
Benzo(a)anthracene	0.30		mg/kg	0.11	0.021	1
Chrysene	0.28		mg/kg	0.11	0.020	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.19	0.066	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.065	1
Benzo(b)fluoranthene	0.32		mg/kg	0.11	0.032	1
Benzo(k)fluoranthene	0.13		mg/kg	0.11	0.030	1
Benzo(a)pyrene	0.25		mg/kg	0.15	0.046	1
Indeno(1,2,3-cd)pyrene	0.17		mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	0.043	J	mg/kg	0.11	0.022	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-23
Client ID: COMP-11
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 16:05
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.15		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	94		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	85		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-23
Client ID: COMP-11
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 16:05
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 10/29/21 18:49
Analyst: JJW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.038	0.011	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.038	0.010	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	59		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-24
Client ID: COMP-12
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 16:10
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/29/21 06:49
Analyst: SZ
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		mg/kg	0.25	0.050	1
Phenol	ND		mg/kg	0.19	0.028	1
2-Chlorophenol	ND		mg/kg	0.19	0.022	1
2-Methylphenol	ND		mg/kg	0.19	0.029	1
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.22	0.032	1
Acetophenone	ND		mg/kg	0.19	0.023	1
1,4-Dioxane	ND		mg/kg	0.028	0.0085	1
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.27	0.029	1
Hexachloroethane	ND		mg/kg	0.15	0.030	1
Nitrobenzene	ND		mg/kg	0.17	0.028	1
Isophorone	ND		mg/kg	0.17	0.024	1
2-Nitrophenol	ND		mg/kg	0.40	0.070	1
2,4-Dimethylphenol	ND		mg/kg	0.19	0.062	1
Bis(2-chloroethoxy)methane	ND		mg/kg	0.20	0.019	1
2,4-Dichlorophenol	ND		mg/kg	0.17	0.030	1
Naphthalene	0.24		mg/kg	0.19	0.023	1
4-Chloroaniline	ND		mg/kg	0.19	0.034	1
Hexachlorobutadiene	ND		mg/kg	0.19	0.027	1
Caprolactam	ND		mg/kg	0.19	0.057	1
p-Chloro-m-cresol	ND		mg/kg	0.19	0.028	1
2-Methylnaphthalene	0.085	J	mg/kg	0.22	0.022	1
Hexachlorocyclopentadiene	ND		mg/kg	0.53	0.17	1
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.19	0.019	1
2,4,6-Trichlorophenol	ND		mg/kg	0.11	0.035	1
2,4,5-Trichlorophenol	ND		mg/kg	0.19	0.036	1
Biphenyl	ND		mg/kg	0.42	0.043	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.018	1
2-Nitroaniline	ND		mg/kg	0.19	0.036	1

Project Name: ALLIANCE-S. 51ST ST **Lab Number:** L2158502

Project Number: 30108678 **Report Date:** 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-24 Date Collected: 10/25/21 16:10

Client ID: COMP-12 Date Received: 10/26/21

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		mg/kg	0.19	0.039	1
2,6-Dinitrotoluene	ND		mg/kg	0.19	0.032	1
Acenaphthylene	0.029	J	mg/kg	0.15	0.029	1
3-Nitroaniline	ND		mg/kg	0.19	0.035	1
Acenaphthene	0.16		mg/kg	0.15	0.019	1
2,4-Dinitrophenol	ND		mg/kg	0.90	0.087	1
4-Nitrophenol	ND		mg/kg	0.26	0.076	1
2,4-Dinitrotoluene	ND		mg/kg	0.19	0.037	1
Dibenzofuran	0.17	J	mg/kg	0.19	0.018	1
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.19	0.038	1
Diethyl phthalate	ND		mg/kg	0.19	0.017	1
Fluorene	0.15	J	mg/kg	0.19	0.018	1
4-Chlorophenyl phenyl ether	ND		mg/kg	0.19	0.020	1
4-Nitroaniline	ND		mg/kg	0.19	0.077	1
4,6-Dinitro-o-cresol	ND		mg/kg	0.48	0.090	1
NDPA/DPA	ND		mg/kg	0.15	0.021	1
4-Bromophenyl phenyl ether	ND		mg/kg	0.19	0.028	1
Hexachlorobenzene	ND		mg/kg	0.11	0.021	1
Pentachlorophenol	ND		mg/kg	0.15	0.041	1
Atrazine	ND		mg/kg	0.15	0.065	1
Phenanthrene	1.4		mg/kg	0.11	0.023	1
Anthracene	0.31		mg/kg	0.11	0.036	1
Carbazole	0.16	J	mg/kg	0.19	0.018	1
Di-n-butylphthalate	ND		mg/kg	0.19	0.035	1
Fluoranthene	1.9		mg/kg	0.11	0.021	1
Pyrene	1.5		mg/kg	0.11	0.018	1
Butyl benzyl phthalate	ND		mg/kg	0.19	0.047	1
3,3'-Dichlorobenzidine	ND		mg/kg	0.19	0.050	1
Benzo(a)anthracene	0.97		mg/kg	0.11	0.021	1
Chrysene	0.90		mg/kg	0.11	0.019	1
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.19	0.064	1
Di-n-octylphthalate	ND		mg/kg	0.19	0.063	1
Benzo(b)fluoranthene	1.1		mg/kg	0.11	0.031	1
Benzo(k)fluoranthene	0.44		mg/kg	0.11	0.030	1
Benzo(a)pyrene	0.86		mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	0.61		mg/kg	0.15	0.026	1
Dibenzo(a,h)anthracene	0.14		mg/kg	0.11	0.022	1

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-24
Client ID: COMP-12
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 16:10
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(ghi)perylene	0.52		mg/kg	0.15	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	94		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	67		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-24
Client ID: COMP-12
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 16:10
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 10/29/21 19:06
Analyst: JJW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.037	0.010	1
n-Nitrosodi-n-propylamine	ND		mg/kg	0.037	0.0098	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	46		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/29/21 00:47
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 13-24 Batch: WG1564056-1					
Benzaldehyde	ND		mg/kg	0.22	0.044
Phenol	ND		mg/kg	0.16	0.025
2-Chlorophenol	ND		mg/kg	0.16	0.019
2-Methylphenol	ND		mg/kg	0.16	0.025
Bis(2-chloroisopropyl)ether	ND		mg/kg	0.20	0.028
Acetophenone	ND		mg/kg	0.16	0.020
1,4-Dioxane	ND		mg/kg	0.024	0.0075
3-Methylphenol/4-Methylphenol	ND		mg/kg	0.24	0.026
Hexachloroethane	ND		mg/kg	0.13	0.026
Nitrobenzene	ND		mg/kg	0.15	0.024
Isophorone	ND		mg/kg	0.15	0.021
2-Nitrophenol	ND		mg/kg	0.35	0.062
2,4-Dimethylphenol	ND		mg/kg	0.16	0.054
Bis(2-chloroethoxy)methane	ND		mg/kg	0.18	0.016
2,4-Dichlorophenol	ND		mg/kg	0.15	0.026
Naphthalene	ND		mg/kg	0.16	0.020
4-Chloroaniline	ND		mg/kg	0.16	0.030
Hexachlorobutadiene	ND		mg/kg	0.16	0.024
Caprolactam	ND		mg/kg	0.16	0.050
p-Chloro-m-cresol	ND		mg/kg	0.16	0.024
2-Methylnaphthalene	ND		mg/kg	0.20	0.020
Hexachlorocyclopentadiene	ND		mg/kg	0.47	0.15
1,2,4,5-Tetrachlorobenzene	ND		mg/kg	0.16	0.017
2,4,6-Trichlorophenol	ND		mg/kg	0.098	0.031
2,4,5-Trichlorophenol	ND		mg/kg	0.16	0.031
Biphenyl	ND		mg/kg	0.37	0.038
2-Chloronaphthalene	ND		mg/kg	0.16	0.016
2-Nitroaniline	ND		mg/kg	0.16	0.032
Dimethyl phthalate	ND		mg/kg	0.16	0.034

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/29/21 00:47
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 13-24 Batch: WG1564056-1					
2,6-Dinitrotoluene	ND		mg/kg	0.16	0.028
Acenaphthylene	ND		mg/kg	0.13	0.025
3-Nitroaniline	ND		mg/kg	0.16	0.031
Acenaphthene	ND		mg/kg	0.13	0.017
2,4-Dinitrophenol	ND		mg/kg	0.79	0.076
4-Nitrophenol	ND		mg/kg	0.23	0.067
2,4-Dinitrotoluene	ND		mg/kg	0.16	0.033
Dibenzofuran	ND		mg/kg	0.16	0.016
2,3,4,6-Tetrachlorophenol	ND		mg/kg	0.16	0.033
Diethyl phthalate	ND		mg/kg	0.16	0.015
Fluorene	ND		mg/kg	0.16	0.016
4-Chlorophenyl phenyl ether	ND		mg/kg	0.16	0.018
4-Nitroaniline	ND		mg/kg	0.16	0.068
4,6-Dinitro-o-cresol	ND		mg/kg	0.43	0.079
NDPA/DPA	ND		mg/kg	0.13	0.019
4-Bromophenyl phenyl ether	ND		mg/kg	0.16	0.025
Hexachlorobenzene	ND		mg/kg	0.098	0.018
Pentachlorophenol	ND		mg/kg	0.13	0.036
Atrazine	ND		mg/kg	0.13	0.057
Phenanthrene	ND		mg/kg	0.098	0.020
Anthracene	ND		mg/kg	0.098	0.032
Carbazole	ND		mg/kg	0.16	0.016
Di-n-butylphthalate	ND		mg/kg	0.16	0.031
Fluoranthene	ND		mg/kg	0.098	0.019
Pyrene	ND		mg/kg	0.098	0.016
Butyl benzyl phthalate	ND		mg/kg	0.16	0.041
3,3'-Dichlorobenzidine	ND		mg/kg	0.16	0.044
Benzo(a)anthracene	ND		mg/kg	0.098	0.018
Chrysene	ND		mg/kg	0.098	0.017

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/29/21 00:47
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 13-24 Batch: WG1564056-1					
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0.16	0.057
Di-n-octylphthalate	ND		mg/kg	0.16	0.056
Benzo(b)fluoranthene	ND		mg/kg	0.098	0.028
Benzo(k)fluoranthene	ND		mg/kg	0.098	0.026
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.13	0.023
Dibenzo(a,h)anthracene	ND		mg/kg	0.098	0.019
Benzo(ghi)perylene	ND		mg/kg	0.13	0.019

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	101		18-120

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 10/28/21 16:43
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 10/27/21 22:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13-24 Batch: WG1564057-1					
Bis(2-chloroethyl)ether	ND		mg/kg	0.033	0.0091
n-Nitrosodi-n-propylamine	ND		mg/kg	0.033	0.0086

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	82		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-24 Batch: WG1564056-2 WG1564056-3								
Benzaldehyde	83		76		40-140	9		50
Phenol	**94**	Q	85		26-90	10		50
2-Chlorophenol	102		91		25-102	11		50
2-Methylphenol	100		89		30-130	12		50
Bis(2-chloroisopropyl)ether	68		60		40-140	13		50
Acetophenone	89		78		14-144	13		50
1,4-Dioxane	66		60		30-130	10		50
3-Methylphenol/4-Methylphenol	98		88		30-130	11		50
Hexachloroethane	86		81		40-140	6		50
Nitrobenzene	92		85		40-140	8		50
Isophorone	82		76		40-140	8		50
2-Nitrophenol	129		116		30-130	11		50
2,4-Dimethylphenol	95		86		30-130	10		50
Bis(2-chloroethoxy)methane	85		76		40-117	11		50
2,4-Dichlorophenol	95		87		30-130	9		50
Naphthalene	88		79		40-140	11		50
4-Chloroaniline	48		45		40-140	6		50
Hexachlorobutadiene	76		70		40-140	8		50
Caprolactam	82		74		15-130	10		50
p-Chloro-m-cresol	94		84		26-103	11		50
2-Methylnaphthalene	84		76		40-140	10		50
Hexachlorocyclopentadiene	89		83		40-140	7		50
1,2,4,5-Tetrachlorobenzene	82		75		40-117	9		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-24 Batch: WG1564056-2 WG1564056-3								
2,4,6-Trichlorophenol	92		85		30-130	8		50
2,4,5-Trichlorophenol	100		88		30-130	13		50
Biphenyl	90		80		37-127	12		50
2-Chloronaphthalene	87		78		40-140	11		50
2-Nitroaniline	109		99		47-134	10		50
Dimethyl phthalate	88		79		40-140	11		50
2,6-Dinitrotoluene	104		95		40-140	9		50
Acenaphthylene	83		74		40-140	11		50
3-Nitroaniline	85		79		26-129	7		50
Acenaphthene	102		93		31-137	9		50
2,4-Dinitrophenol	105		108		4-130	3		50
4-Nitrophenol	114		102		11-114	11		50
2,4-Dinitrotoluene	104		93		40-132	11		50
Dibenzofuran	92		84		40-140	9		50
2,3,4,6-Tetrachlorophenol	101		90		58-132	12		50
Diethyl phthalate	95		88		40-140	8		50
Fluorene	96		87		40-140	10		50
4-Chlorophenyl phenyl ether	91		84		40-140	8		50
4-Nitroaniline	112		103		41-125	8		50
4,6-Dinitro-o-cresol	125		118		10-130	6		50
NDPA/DPA	98		89		36-157	10		50
4-Bromophenyl phenyl ether	87		80		40-140	8		50
Hexachlorobenzene	86		77		40-140	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST

Project Number: 30108678

Lab Number: L2158502

Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-24 Batch: WG1564056-2 WG1564056-3								
Pentachlorophenol	91		84		17-109	8		50
Atrazine	90		82		40-140	9		50
Phenanthrene	95		86		40-140	10		50
Anthracene	96		85		40-140	12		50
Carbazole	99		88		54-128	12		50
Di-n-butylphthalate	100		89		40-140	12		50
Fluoranthene	99		88		40-140	12		50
Pyrene	100		88		35-142	13		50
Butyl benzyl phthalate	120		104		40-140	14		50
3,3'-Dichlorobenzidine	72		66		40-140	9		50
Benzo(a)anthracene	100		89		40-140	12		50
Chrysene	96		86		40-140	11		50
Bis(2-ethylhexyl)phthalate	104		92		40-140	12		50
Di-n-octylphthalate	108		96		40-140	12		50
Benzo(b)fluoranthene	105		93		40-140	12		50
Benzo(k)fluoranthene	101		91		40-140	10		50
Benzo(a)pyrene	94		84		40-140	11		50
Indeno(1,2,3-cd)pyrene	99		89		40-140	11		50
Dibenzo(a,h)anthracene	104		93		40-140	11		50
Benzo(ghi)perylene	102		92		40-140	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-24 Batch: WG1564056-2 WG1564056-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	105		94		25-120
Phenol-d6	108		97		10-120
Nitrobenzene-d5	103		93		23-120
2-Fluorobiphenyl	88		76		30-120
2,4,6-Tribromophenol	96		89		10-136
4-Terphenyl-d14	108		95		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST

Project Number: 30108678

Lab Number: L2158502

Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13-24 Batch: WG1564057-2 WG1564057-3								
Bis(2-chloroethyl)ether	72		68		40-140	6		50
n-Nitrosodi-n-propylamine	78		75		40-140	4		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	80		74		25-120
Phenol-d6	84		79		10-120
Nitrobenzene-d5	82		77		23-120
2-Fluorobiphenyl	74		71		30-120
2,4,6-Tribromophenol	90		92		10-136
4-Terphenyl-d14	75		76		18-120

PCBS

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-13
Client ID: COMP-1
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:15
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/21 23:33
Analyst: CW
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 00:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0438	0.00389	1	A
Aroclor 1221	ND		mg/kg	0.0438	0.00439	1	A
Aroclor 1232	ND		mg/kg	0.0438	0.00928	1	A
Aroclor 1242	ND		mg/kg	0.0438	0.00590	1	A
Aroclor 1248	ND		mg/kg	0.0438	0.00657	1	A
Aroclor 1254	ND		mg/kg	0.0438	0.00479	1	A
Aroclor 1260	ND		mg/kg	0.0438	0.00809	1	A
Aroclor 1262	ND		mg/kg	0.0438	0.00556	1	A
Aroclor 1268	ND		mg/kg	0.0438	0.00454	1	A
PCBs, Total	ND		mg/kg	0.0438	0.00389	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	36		30-150	B
Decachlorobiphenyl	31		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-14
Client ID: COMP-2
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:20
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/21 23:41
Analyst: CW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 00:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0379	0.00336	1	A
Aroclor 1221	ND		mg/kg	0.0379	0.00379	1	A
Aroclor 1232	ND		mg/kg	0.0379	0.00803	1	A
Aroclor 1242	ND		mg/kg	0.0379	0.00510	1	A
Aroclor 1248	ND		mg/kg	0.0379	0.00568	1	A
Aroclor 1254	ND		mg/kg	0.0379	0.00414	1	A
Aroclor 1260	ND		mg/kg	0.0379	0.00700	1	A
Aroclor 1262	ND		mg/kg	0.0379	0.00481	1	A
Aroclor 1268	ND		mg/kg	0.0379	0.00392	1	A
PCBs, Total	ND		mg/kg	0.0379	0.00336	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	40		30-150	A
Decachlorobiphenyl	34		30-150	A
2,4,5,6-Tetrachloro-m-xylene	38		30-150	B
Decachlorobiphenyl	32		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-15
Client ID: COMP-3
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/21 23:49
Analyst: CW
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 00:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0374	0.00332	1	A
Aroclor 1221	ND		mg/kg	0.0374	0.00375	1	A
Aroclor 1232	ND		mg/kg	0.0374	0.00794	1	A
Aroclor 1242	ND		mg/kg	0.0374	0.00505	1	A
Aroclor 1248	ND		mg/kg	0.0374	0.00562	1	A
Aroclor 1254	ND		mg/kg	0.0374	0.00410	1	A
Aroclor 1260	ND		mg/kg	0.0374	0.00692	1	A
Aroclor 1262	ND		mg/kg	0.0374	0.00475	1	A
Aroclor 1268	ND		mg/kg	0.0374	0.00388	1	A
PCBs, Total	ND		mg/kg	0.0374	0.00332	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		30-150	B
Decachlorobiphenyl	37		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-16
Client ID: COMP-4
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:30
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/29/21 23:44
Analyst: CW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/29/21 11:35
Cleanup Method: EPA 3665A
Cleanup Date: 10/29/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/29/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0372	0.00330	1	A
Aroclor 1221	ND		mg/kg	0.0372	0.00373	1	A
Aroclor 1232	ND		mg/kg	0.0372	0.00789	1	A
Aroclor 1242	0.0160	J	mg/kg	0.0372	0.00502	1	A
Aroclor 1248	ND		mg/kg	0.0372	0.00558	1	A
Aroclor 1254	ND		mg/kg	0.0372	0.00407	1	A
Aroclor 1260	ND		mg/kg	0.0372	0.00688	1	A
Aroclor 1262	ND		mg/kg	0.0372	0.00472	1	A
Aroclor 1268	ND		mg/kg	0.0372	0.00385	1	A
PCBs, Total	0.0160	J	mg/kg	0.0372	0.00330	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-17
Client ID: COMP-5
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/29/21 00:05
Analyst: CW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 00:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0360	0.00320	1	A
Aroclor 1221	ND		mg/kg	0.0360	0.00361	1	A
Aroclor 1232	ND		mg/kg	0.0360	0.00763	1	A
Aroclor 1242	ND		mg/kg	0.0360	0.00485	1	A
Aroclor 1248	ND		mg/kg	0.0360	0.00540	1	A
Aroclor 1254	0.00396	J	mg/kg	0.0360	0.00394	1	B
Aroclor 1260	ND		mg/kg	0.0360	0.00665	1	A
Aroclor 1262	ND		mg/kg	0.0360	0.00457	1	A
Aroclor 1268	ND		mg/kg	0.0360	0.00373	1	A
PCBs, Total	0.00396	J	mg/kg	0.0360	0.00320	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-18
Client ID: COMP-6
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:40
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/29/21 00:13
Analyst: CW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 00:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0359	0.00319	1	A
Aroclor 1221	ND		mg/kg	0.0359	0.00360	1	A
Aroclor 1232	ND		mg/kg	0.0359	0.00761	1	A
Aroclor 1242	ND		mg/kg	0.0359	0.00484	1	A
Aroclor 1248	0.0408		mg/kg	0.0359	0.00539	1	A
Aroclor 1254	ND		mg/kg	0.0359	0.00393	1	A
Aroclor 1260	ND		mg/kg	0.0359	0.00664	1	A
Aroclor 1262	ND		mg/kg	0.0359	0.00456	1	A
Aroclor 1268	ND		mg/kg	0.0359	0.00372	1	A
PCBs, Total	0.0408		mg/kg	0.0359	0.00319	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	42		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-19
Client ID: COMP-7
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/21 19:23
Analyst: CW
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 00:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0354	0.00315	1	A
Aroclor 1221	ND		mg/kg	0.0354	0.00355	1	A
Aroclor 1232	ND		mg/kg	0.0354	0.00751	1	A
Aroclor 1242	ND		mg/kg	0.0354	0.00478	1	A
Aroclor 1248	ND		mg/kg	0.0354	0.00532	1	A
Aroclor 1254	ND		mg/kg	0.0354	0.00388	1	A
Aroclor 1260	ND		mg/kg	0.0354	0.00655	1	A
Aroclor 1262	ND		mg/kg	0.0354	0.00450	1	A
Aroclor 1268	ND		mg/kg	0.0354	0.00367	1	A
PCBs, Total	ND		mg/kg	0.0354	0.00315	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		30-150	B
Decachlorobiphenyl	41		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-20
Client ID: COMP-8
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:50
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/21 19:31
Analyst: CW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 00:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0364	0.00323	1	A
Aroclor 1221	ND		mg/kg	0.0364	0.00364	1	A
Aroclor 1232	ND		mg/kg	0.0364	0.00771	1	A
Aroclor 1242	ND		mg/kg	0.0364	0.00490	1	A
Aroclor 1248	ND		mg/kg	0.0364	0.00545	1	A
Aroclor 1254	ND		mg/kg	0.0364	0.00398	1	A
Aroclor 1260	ND		mg/kg	0.0364	0.00672	1	A
Aroclor 1262	ND		mg/kg	0.0364	0.00462	1	A
Aroclor 1268	ND		mg/kg	0.0364	0.00377	1	A
PCBs, Total	ND		mg/kg	0.0364	0.00323	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	32		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	30		30-150	B
Decachlorobiphenyl	31		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-21
Client ID: COMP-9
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 15:55
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/21 19:39
Analyst: CW
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 00:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0364	0.00323	1	A
Aroclor 1221	ND		mg/kg	0.0364	0.00364	1	A
Aroclor 1232	ND		mg/kg	0.0364	0.00771	1	A
Aroclor 1242	ND		mg/kg	0.0364	0.00490	1	A
Aroclor 1248	ND		mg/kg	0.0364	0.00546	1	A
Aroclor 1254	ND		mg/kg	0.0364	0.00398	1	A
Aroclor 1260	ND		mg/kg	0.0364	0.00672	1	A
Aroclor 1262	ND		mg/kg	0.0364	0.00462	1	A
Aroclor 1268	ND		mg/kg	0.0364	0.00377	1	A
PCBs, Total	ND		mg/kg	0.0364	0.00323	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-22
Client ID: COMP-10
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 16:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/21 19:47
Analyst: CW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 00:15
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0387	0.00344	1	A
Aroclor 1221	ND		mg/kg	0.0387	0.00388	1	A
Aroclor 1232	ND		mg/kg	0.0387	0.00820	1	A
Aroclor 1242	ND		mg/kg	0.0387	0.00522	1	A
Aroclor 1248	ND		mg/kg	0.0387	0.00580	1	A
Aroclor 1254	ND		mg/kg	0.0387	0.00423	1	A
Aroclor 1260	ND		mg/kg	0.0387	0.00715	1	A
Aroclor 1262	ND		mg/kg	0.0387	0.00491	1	A
Aroclor 1268	ND		mg/kg	0.0387	0.00401	1	A
PCBs, Total	ND		mg/kg	0.0387	0.00344	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	40		30-150	B
Decachlorobiphenyl	34		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-23
Client ID: COMP-11
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 16:05
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/29/21 00:21
Analyst: CW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 00:15
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0376	0.00334	1	A
Aroclor 1221	ND		mg/kg	0.0376	0.00377	1	A
Aroclor 1232	ND		mg/kg	0.0376	0.00797	1	A
Aroclor 1242	ND		mg/kg	0.0376	0.00507	1	A
Aroclor 1248	ND		mg/kg	0.0376	0.00564	1	A
Aroclor 1254	ND		mg/kg	0.0376	0.00411	1	A
Aroclor 1260	ND		mg/kg	0.0376	0.00695	1	A
Aroclor 1262	ND		mg/kg	0.0376	0.00477	1	A
Aroclor 1268	ND		mg/kg	0.0376	0.00389	1	A
PCBs, Total	ND		mg/kg	0.0376	0.00334	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	40		30-150	B
Decachlorobiphenyl	38		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-24
Client ID: COMP-12
Sample Location: PHILADELPHIA, PA

Date Collected: 10/25/21 16:10
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/28/21 19:55
Analyst: CW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/28/21 00:15
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0370	0.00329	1	A
Aroclor 1221	ND		mg/kg	0.0370	0.00371	1	A
Aroclor 1232	ND		mg/kg	0.0370	0.00785	1	A
Aroclor 1242	ND		mg/kg	0.0370	0.00499	1	A
Aroclor 1248	ND		mg/kg	0.0370	0.00556	1	A
Aroclor 1254	0.0153	J	mg/kg	0.0370	0.00405	1	A
Aroclor 1260	ND		mg/kg	0.0370	0.00684	1	A
Aroclor 1262	ND		mg/kg	0.0370	0.00470	1	A
Aroclor 1268	ND		mg/kg	0.0370	0.00384	1	A
PCBs, Total	0.0153	J	mg/kg	0.0370	0.00329	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	40		30-150	B
Decachlorobiphenyl	40		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/28/21 18:59
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 10/28/21 00:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/28/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 13-15,17-24 Batch: WG1564072-1						
Aroclor 1016	ND		mg/kg	0.0325	0.00288	A
Aroclor 1221	ND		mg/kg	0.0325	0.00325	A
Aroclor 1232	ND		mg/kg	0.0325	0.00688	A
Aroclor 1242	ND		mg/kg	0.0325	0.00438	A
Aroclor 1248	ND		mg/kg	0.0325	0.00487	A
Aroclor 1254	ND		mg/kg	0.0325	0.00355	A
Aroclor 1260	ND		mg/kg	0.0325	0.00600	A
Aroclor 1262	ND		mg/kg	0.0325	0.00412	A
Aroclor 1268	ND		mg/kg	0.0325	0.00336	A
PCBs, Total	ND		mg/kg	0.0325	0.00288	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/29/21 23:52
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 10/29/21 11:35
Cleanup Method: EPA 3665A
Cleanup Date: 10/29/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/29/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 16 Batch: WG1564882-1						
Aroclor 1016	ND		mg/kg	0.0321	0.00285	A
Aroclor 1221	ND		mg/kg	0.0321	0.00322	A
Aroclor 1232	ND		mg/kg	0.0321	0.00681	A
Aroclor 1242	ND		mg/kg	0.0321	0.00433	A
Aroclor 1248	ND		mg/kg	0.0321	0.00482	A
Aroclor 1254	ND		mg/kg	0.0321	0.00352	A
Aroclor 1260	ND		mg/kg	0.0321	0.00594	A
Aroclor 1262	ND		mg/kg	0.0321	0.00408	A
Aroclor 1268	ND		mg/kg	0.0321	0.00333	A
PCBs, Total	ND		mg/kg	0.0321	0.00285	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	61		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST

Project Number: 30108678

Lab Number: L2158502

Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 13-15,17-24 Batch: WG1564072-2 WG1564072-3									
Aroclor 1016	58		58		40-140	0		50	A
Aroclor 1260	55		54		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		53		30-150	A
Decachlorobiphenyl	51		50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		50		30-150	B
Decachlorobiphenyl	47		45		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST

Project Number: 30108678

Lab Number: L2158502

Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 16 Batch: WG1564882-2 WG1564882-3									
Aroclor 1016	**178**	Q	**149**	Q	40-140	18		50	A
Aroclor 1260	**163**	Q	134		40-140	20		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		65		30-150	A
Decachlorobiphenyl	70		57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		61		30-150	B
Decachlorobiphenyl	65		51		30-150	B

METALS

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-13
Client ID: COMP-1
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:15
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9840		mg/kg	10.4	2.81	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	5.21	0.396	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Arsenic, Total	1.85		mg/kg	1.04	0.217	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Barium, Total	98.9		mg/kg	1.04	0.181	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Beryllium, Total	0.542		mg/kg	0.521	0.034	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Cadmium, Total	0.479	J	mg/kg	1.04	0.102	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Calcium, Total	2520		mg/kg	10.4	3.64	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Chromium, Total	34.7		mg/kg	1.04	0.100	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Cobalt, Total	12.2		mg/kg	2.08	0.173	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Copper, Total	22.4		mg/kg	1.04	0.269	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Iron, Total	18600		mg/kg	5.21	0.940	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Lead, Total	60.6		mg/kg	5.21	0.279	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Magnesium, Total	5130		mg/kg	10.4	1.60	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Manganese, Total	318		mg/kg	1.04	0.166	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Mercury, Total	0.092		mg/kg	0.086	0.056	1	10/27/21 20:22	10/28/21 09:10	EPA 7471B	1,7471B	AC
Nickel, Total	17.6		mg/kg	2.60	0.252	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Potassium, Total	5310		mg/kg	260	15.0	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	2.08	0.269	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	1.04	0.295	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Sodium, Total	95.6	J	mg/kg	208	3.28	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	2.08	0.328	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Vanadium, Total	29.1		mg/kg	1.04	0.211	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD
Zinc, Total	68.9		mg/kg	5.21	0.305	2	10/27/21 19:50	10/28/21 18:54	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-14
Client ID: COMP-2
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:20
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7850		mg/kg	9.33	2.52	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.66	0.354	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Arsenic, Total	1.25		mg/kg	0.933	0.194	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Barium, Total	81.8		mg/kg	0.933	0.162	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Beryllium, Total	0.448	J	mg/kg	0.466	0.031	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Cadmium, Total	0.392	J	mg/kg	0.933	0.091	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Calcium, Total	1750		mg/kg	9.33	3.26	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Chromium, Total	22.5		mg/kg	0.933	0.090	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Cobalt, Total	9.88		mg/kg	1.87	0.155	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Copper, Total	15.8		mg/kg	0.933	0.241	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Iron, Total	15400		mg/kg	4.66	0.842	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Lead, Total	51.1		mg/kg	4.66	0.250	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Magnesium, Total	4110		mg/kg	9.33	1.44	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Manganese, Total	251		mg/kg	0.933	0.148	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Mercury, Total	0.054	J	mg/kg	0.080	0.052	1	10/27/21 20:22	10/28/21 09:13	EPA 7471B	1,7471B	AC
Nickel, Total	13.6		mg/kg	2.33	0.226	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Potassium, Total	4260		mg/kg	233	13.4	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.87	0.241	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.933	0.264	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Sodium, Total	77.2	J	mg/kg	187	2.94	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.87	0.294	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Vanadium, Total	23.6		mg/kg	0.933	0.189	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD
Zinc, Total	55.7		mg/kg	4.66	0.273	2	10/27/21 19:50	10/28/21 19:38	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-15
Client ID: COMP-3
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:25
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9460		mg/kg	9.11	2.46	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.56	0.346	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Arsenic, Total	1.69		mg/kg	0.911	0.190	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Barium, Total	101		mg/kg	0.911	0.158	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Beryllium, Total	0.556		mg/kg	0.456	0.030	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Cadmium, Total	0.483	J	mg/kg	0.911	0.089	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Calcium, Total	4930		mg/kg	9.11	3.19	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Chromium, Total	40.0		mg/kg	0.911	0.088	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Cobalt, Total	11.7		mg/kg	1.82	0.151	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Copper, Total	20.0		mg/kg	0.911	0.235	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Iron, Total	17900		mg/kg	4.56	0.823	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Lead, Total	85.7		mg/kg	4.56	0.244	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Magnesium, Total	5220		mg/kg	9.11	1.40	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Manganese, Total	308		mg/kg	0.911	0.145	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Mercury, Total	0.109		mg/kg	0.078	0.051	1	10/27/21 20:22	10/28/21 09:17	EPA 7471B	1,7471B	AC
Nickel, Total	16.6		mg/kg	2.28	0.220	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Potassium, Total	4880		mg/kg	228	13.1	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.82	0.235	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.911	0.258	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Sodium, Total	105	J	mg/kg	182	2.87	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.82	0.287	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Vanadium, Total	27.2		mg/kg	0.911	0.185	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD
Zinc, Total	68.5		mg/kg	4.56	0.267	2	10/27/21 19:50	10/28/21 19:42	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-16
Client ID: COMP-4
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:30
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11700		mg/kg	9.04	2.44	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.52	0.344	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Arsenic, Total	1.11		mg/kg	0.904	0.188	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Barium, Total	147		mg/kg	0.904	0.157	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Beryllium, Total	1.21		mg/kg	0.452	0.030	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Cadmium, Total	0.543	J	mg/kg	0.904	0.089	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Calcium, Total	2240		mg/kg	9.04	3.16	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Chromium, Total	33.5		mg/kg	0.904	0.087	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Cobalt, Total	14.3		mg/kg	1.81	0.150	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Copper, Total	28.5		mg/kg	0.904	0.233	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Iron, Total	21900		mg/kg	4.52	0.817	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Lead, Total	298		mg/kg	4.52	0.242	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Magnesium, Total	7170		mg/kg	9.04	1.39	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Manganese, Total	364		mg/kg	0.904	0.144	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Mercury, Total	0.078	J	mg/kg	0.079	0.052	1	10/27/21 20:22	10/28/21 09:20	EPA 7471B	1,7471B	AC
Nickel, Total	22.1		mg/kg	2.26	0.219	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Potassium, Total	7300		mg/kg	226	13.0	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Selenium, Total	0.271	J	mg/kg	1.81	0.233	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.904	0.256	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Sodium, Total	126	J	mg/kg	181	2.85	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.81	0.285	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Vanadium, Total	32.2		mg/kg	0.904	0.184	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD
Zinc, Total	154		mg/kg	4.52	0.265	2	10/27/21 19:50	10/28/21 19:47	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-17
Client ID: COMP-5
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:35
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9160		mg/kg	9.00	2.43	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.50	0.342	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Arsenic, Total	0.630	J	mg/kg	0.900	0.187	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Barium, Total	111		mg/kg	0.900	0.156	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Beryllium, Total	0.657		mg/kg	0.450	0.030	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Cadmium, Total	0.405	J	mg/kg	0.900	0.088	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Calcium, Total	1390		mg/kg	9.00	3.15	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Chromium, Total	20.6		mg/kg	0.900	0.086	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Cobalt, Total	11.4		mg/kg	1.80	0.149	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Copper, Total	25.2		mg/kg	0.900	0.232	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Iron, Total	16800		mg/kg	4.50	0.812	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Lead, Total	30.2		mg/kg	4.50	0.241	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Magnesium, Total	5860		mg/kg	9.00	1.38	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Manganese, Total	280		mg/kg	0.900	0.143	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.074	0.048	1	10/27/21 20:22	10/28/21 09:23	EPA 7471B	1,7471B	AC
Nickel, Total	16.2		mg/kg	2.25	0.218	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Potassium, Total	6380		mg/kg	225	13.0	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Selenium, Total	0.234	J	mg/kg	1.80	0.232	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.900	0.254	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Sodium, Total	137	J	mg/kg	180	2.83	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.80	0.283	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Vanadium, Total	24.8		mg/kg	0.900	0.183	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD
Zinc, Total	122		mg/kg	4.50	0.264	2	10/27/21 19:50	10/28/21 19:51	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-18
Client ID: COMP-6
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:40
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11300		mg/kg	8.91	2.40	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.45	0.338	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Arsenic, Total	1.50		mg/kg	0.891	0.185	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Barium, Total	130		mg/kg	0.891	0.155	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Beryllium, Total	0.561		mg/kg	0.445	0.029	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Cadmium, Total	0.570	J	mg/kg	0.891	0.087	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Calcium, Total	2640		mg/kg	8.91	3.12	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Chromium, Total	50.9		mg/kg	0.891	0.086	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Cobalt, Total	13.9		mg/kg	1.78	0.148	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Copper, Total	25.2		mg/kg	0.891	0.230	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Iron, Total	21900		mg/kg	4.45	0.804	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Lead, Total	44.9		mg/kg	4.45	0.239	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Magnesium, Total	6880		mg/kg	8.91	1.37	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Manganese, Total	381		mg/kg	0.891	0.142	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Mercury, Total	0.128		mg/kg	0.077	0.050	1	10/27/21 20:22	10/28/21 09:26	EPA 7471B	1,7471B	AC
Nickel, Total	21.3		mg/kg	2.23	0.216	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Potassium, Total	7110		mg/kg	223	12.8	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Selenium, Total	0.303	J	mg/kg	1.78	0.230	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.891	0.252	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Sodium, Total	143	J	mg/kg	178	2.80	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.78	0.280	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Vanadium, Total	31.7		mg/kg	0.891	0.181	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD
Zinc, Total	88.1		mg/kg	4.45	0.261	2	10/27/21 19:50	10/28/21 19:56	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-19
Client ID: COMP-7
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:45
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10000		mg/kg	8.71	2.35	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.35	0.331	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Arsenic, Total	1.38		mg/kg	0.871	0.181	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Barium, Total	139		mg/kg	0.871	0.152	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Beryllium, Total	1.95		mg/kg	0.435	0.029	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Cadmium, Total	0.653	J	mg/kg	0.871	0.085	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Calcium, Total	3810		mg/kg	8.71	3.05	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Chromium, Total	40.0		mg/kg	0.871	0.084	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Cobalt, Total	17.8		mg/kg	1.74	0.144	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Copper, Total	61.7		mg/kg	0.871	0.225	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Iron, Total	22300		mg/kg	4.35	0.786	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Lead, Total	75.7		mg/kg	4.35	0.233	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Magnesium, Total	6480		mg/kg	8.71	1.34	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Manganese, Total	524		mg/kg	0.871	0.138	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Mercury, Total	0.136		mg/kg	0.074	0.048	1	10/27/21 20:22	10/28/21 09:30	EPA 7471B	1,7471B	AC
Nickel, Total	20.4		mg/kg	2.18	0.211	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Potassium, Total	6190		mg/kg	218	12.5	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Selenium, Total	0.427	J	mg/kg	1.74	0.225	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.871	0.246	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Sodium, Total	148	J	mg/kg	174	2.74	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.74	0.274	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Vanadium, Total	32.3		mg/kg	0.871	0.177	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD
Zinc, Total	357		mg/kg	4.35	0.255	2	10/27/21 19:50	10/28/21 20:01	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-20
Client ID: COMP-8
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:50
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7590		mg/kg	8.69	2.34	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.34	0.330	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Arsenic, Total	1.08		mg/kg	0.869	0.181	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Barium, Total	90.1		mg/kg	0.869	0.151	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Beryllium, Total	0.695		mg/kg	0.434	0.029	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Cadmium, Total	0.469	J	mg/kg	0.869	0.085	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Calcium, Total	2160		mg/kg	8.69	3.04	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Chromium, Total	22.8		mg/kg	0.869	0.083	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Cobalt, Total	9.89		mg/kg	1.74	0.144	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Copper, Total	24.8		mg/kg	0.869	0.224	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Iron, Total	14600		mg/kg	4.34	0.784	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Lead, Total	41.9		mg/kg	4.34	0.233	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Magnesium, Total	4930		mg/kg	8.69	1.34	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Manganese, Total	289		mg/kg	0.869	0.138	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Mercury, Total	0.121		mg/kg	0.074	0.048	1	10/27/21 20:22	10/28/21 09:33	EPA 7471B	1,7471B	AC
Nickel, Total	14.1		mg/kg	2.17	0.210	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Potassium, Total	4900		mg/kg	217	12.5	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Selenium, Total	0.426	J	mg/kg	1.74	0.224	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.869	0.246	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Sodium, Total	107	J	mg/kg	174	2.74	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.74	0.274	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Vanadium, Total	23.6		mg/kg	0.869	0.176	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD
Zinc, Total	154		mg/kg	4.34	0.254	2	10/27/21 19:50	10/28/21 20:05	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-21
Client ID: COMP-9
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 15:55
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11000		mg/kg	8.80	2.38	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.40	0.334	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Arsenic, Total	1.51		mg/kg	0.880	0.183	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Barium, Total	148		mg/kg	0.880	0.153	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Beryllium, Total	0.519		mg/kg	0.440	0.029	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Cadmium, Total	0.511	J	mg/kg	0.880	0.086	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Calcium, Total	2650		mg/kg	8.80	3.08	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Chromium, Total	36.1		mg/kg	0.880	0.085	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Cobalt, Total	12.9		mg/kg	1.76	0.146	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Copper, Total	22.6		mg/kg	0.880	0.227	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Iron, Total	20000		mg/kg	4.40	0.795	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Lead, Total	36.9		mg/kg	4.40	0.236	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Magnesium, Total	7170		mg/kg	8.80	1.36	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Manganese, Total	338		mg/kg	0.880	0.140	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Mercury, Total	0.073	J	mg/kg	0.075	0.049	1	10/27/21 20:22	10/28/21 09:36	EPA 7471B	1,7471B	AC
Nickel, Total	21.5		mg/kg	2.20	0.213	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Potassium, Total	7220		mg/kg	220	12.7	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Selenium, Total	0.581	J	mg/kg	1.76	0.227	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.880	0.249	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Sodium, Total	128	J	mg/kg	176	2.77	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.76	0.277	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Vanadium, Total	32.1		mg/kg	0.880	0.179	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD
Zinc, Total	76.2		mg/kg	4.40	0.258	2	10/27/21 19:50	10/28/21 20:10	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-22
Client ID: COMP-10
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 16:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10300		mg/kg	9.52	2.57	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.76	0.362	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Arsenic, Total	1.78		mg/kg	0.952	0.198	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Barium, Total	95.7		mg/kg	0.952	0.166	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Beryllium, Total	0.590		mg/kg	0.476	0.031	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Cadmium, Total	0.457	J	mg/kg	0.952	0.093	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Calcium, Total	2630		mg/kg	9.52	3.33	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Chromium, Total	40.1		mg/kg	0.952	0.091	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Cobalt, Total	14.1		mg/kg	1.90	0.158	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Copper, Total	19.4		mg/kg	0.952	0.246	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Iron, Total	18200		mg/kg	4.76	0.860	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Lead, Total	56.2		mg/kg	4.76	0.255	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Magnesium, Total	5430		mg/kg	9.52	1.47	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Manganese, Total	326		mg/kg	0.952	0.151	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Mercury, Total	0.104		mg/kg	0.075	0.049	1	10/27/21 20:22	10/28/21 09:55	EPA 7471B	1,7471B	AC
Nickel, Total	18.3		mg/kg	2.38	0.230	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Potassium, Total	5700		mg/kg	238	13.7	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.90	0.246	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.952	0.269	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Sodium, Total	82.6	J	mg/kg	190	3.00	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.90	0.300	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Vanadium, Total	29.6		mg/kg	0.952	0.193	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD
Zinc, Total	78.0		mg/kg	4.76	0.279	2	10/27/21 19:50	10/28/21 20:14	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-23
Client ID: COMP-11
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 16:05
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11000		mg/kg	9.26	2.50	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.63	0.352	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Arsenic, Total	2.22		mg/kg	0.926	0.192	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Barium, Total	118		mg/kg	0.926	0.161	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Beryllium, Total	0.639		mg/kg	0.463	0.031	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Cadmium, Total	0.555	J	mg/kg	0.926	0.091	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Calcium, Total	3350		mg/kg	9.26	3.24	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Chromium, Total	62.0		mg/kg	0.926	0.089	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Cobalt, Total	13.9		mg/kg	1.85	0.154	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Copper, Total	22.3		mg/kg	0.926	0.239	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Iron, Total	21200		mg/kg	4.63	0.836	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Lead, Total	76.4		mg/kg	4.63	0.248	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Magnesium, Total	6020		mg/kg	9.26	1.42	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Manganese, Total	381		mg/kg	0.926	0.147	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Mercury, Total	0.145		mg/kg	0.077	0.050	1	10/27/21 20:22	10/28/21 10:01	EPA 7471B	1,7471B	AC
Nickel, Total	20.0		mg/kg	2.31	0.224	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Potassium, Total	5860		mg/kg	231	13.3	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Selenium, Total	0.463	J	mg/kg	1.85	0.239	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.926	0.262	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Sodium, Total	94.0	J	mg/kg	185	2.92	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.85	0.292	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Vanadium, Total	33.4		mg/kg	0.926	0.188	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD
Zinc, Total	78.5		mg/kg	4.63	0.271	2	10/27/21 19:50	10/28/21 20:19	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE-S. 51ST ST
Lab Number: L2158502
Project Number: 30108678
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-24
Client ID: COMP-12
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 16:10
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10700		mg/kg	8.89	2.40	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.44	0.338	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Arsenic, Total	2.57		mg/kg	0.889	0.185	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Barium, Total	127		mg/kg	0.889	0.155	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Beryllium, Total	0.836		mg/kg	0.444	0.029	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Cadmium, Total	0.569	J	mg/kg	0.889	0.087	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Calcium, Total	6960		mg/kg	8.89	3.11	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Chromium, Total	155		mg/kg	0.889	0.085	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Cobalt, Total	13.5		mg/kg	1.78	0.148	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Copper, Total	32.4		mg/kg	0.889	0.229	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Iron, Total	21200		mg/kg	4.44	0.803	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Lead, Total	81.6		mg/kg	4.44	0.238	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Magnesium, Total	665		mg/kg	8.89	1.37	2	10/27/21 19:50	10/29/21 16:26	EPA 3050B	1,6010D	GD
Manganese, Total	383		mg/kg	0.889	0.141	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Mercury, Total	0.112		mg/kg	0.074	0.048	1	10/27/21 20:22	10/28/21 10:04	EPA 7471B	1,7471B	AC
Nickel, Total	22.6		mg/kg	2.22	0.215	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Potassium, Total	5840		mg/kg	222	12.8	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Selenium, Total	0.329	J	mg/kg	1.78	0.229	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.889	0.252	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Sodium, Total	123	J	mg/kg	178	2.80	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.78	0.280	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Vanadium, Total	31.8		mg/kg	0.889	0.180	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD
Zinc, Total	126		mg/kg	4.44	0.260	2	10/27/21 19:50	10/28/21 20:32	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13-24 Batch: WG1563969-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Antimony, Total	ND		mg/kg	2.00	0.152	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Arsenic, Total	0.180	J	mg/kg	0.400	0.083	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Barium, Total	ND		mg/kg	0.400	0.070	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Calcium, Total	ND		mg/kg	4.00	1.40	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Chromium, Total	0.068	J	mg/kg	0.400	0.038	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Cobalt, Total	ND		mg/kg	0.800	0.066	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Copper, Total	ND		mg/kg	0.400	0.103	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Iron, Total	1.06	J	mg/kg	2.00	0.361	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Lead, Total	ND		mg/kg	2.00	0.107	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Magnesium, Total	ND		mg/kg	4.00	0.616	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Manganese, Total	ND		mg/kg	0.400	0.064	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Potassium, Total	ND		mg/kg	100	5.76	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Silver, Total	ND		mg/kg	0.400	0.113	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Sodium, Total	16.3	J	mg/kg	80.0	1.26	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Thallium, Total	ND		mg/kg	0.800	0.126	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Vanadium, Total	ND		mg/kg	0.400	0.081	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/27/21 19:50	10/28/21 18:14	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13-24 Batch: WG1563970-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/27/21 20:22	10/28/21 08:37	1,7471B	AC

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST

Project Number: 30108678

Lab Number: L2158502

Report Date: 11/09/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-24 Batch: WG1563969-2 SRM Lot Number: D109-540								
Aluminum, Total	62		-		50-150	-		
Antimony, Total	127		-		19-250	-		
Arsenic, Total	99		-		70-130	-		
Barium, Total	89		-		75-125	-		
Beryllium, Total	92		-		75-125	-		
Cadmium, Total	93		-		75-125	-		
Calcium, Total	94		-		73-128	-		
Chromium, Total	90		-		70-130	-		
Cobalt, Total	94		-		75-125	-		
Copper, Total	94		-		75-125	-		
Iron, Total	90		-		35-165	-		
Lead, Total	96		-		72-128	-		
Magnesium, Total	83		-		62-138	-		
Manganese, Total	93		-		74-126	-		
Nickel, Total	93		-		70-130	-		
Potassium, Total	78		-		59-141	-		
Selenium, Total	94		-		68-132	-		
Silver, Total	98		-		68-131	-		
Sodium, Total	96		-		35-165	-		
Thallium, Total	94		-		68-131	-		
Vanadium, Total	90		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST

Project Number: 30108678

Lab Number: L2158502

Report Date: 11/09/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-24 Batch: WG1563969-2 SRM Lot Number: D109-540					
Zinc, Total	95	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 13-24 Batch: WG1563970-2 SRM Lot Number: D109-540					
Mercury, Total	97	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-24 QC Batch ID: WG1563969-3 QC Sample: L2158501-04 Client ID: MS Sample												
Aluminum, Total	11200	178	10500	**0**	Q	-	-		75-125	-		20
Antimony, Total	ND	44.4	28.8	**65**	Q	-	-		75-125	-		20
Arsenic, Total	2.38	10.7	11.0	81		-	-		75-125	-		20
Barium, Total	120	178	258	78		-	-		75-125	-		20
Beryllium, Total	0.776	4.44	4.44	82		-	-		75-125	-		20
Cadmium, Total	0.570J	4.71	4.50	96		-	-		75-125	-		20
Calcium, Total	4090	889	3980	**0**	Q	-	-		75-125	-		20
Chromium, Total	83.3	17.8	72.4	**0**	Q	-	-		75-125	-		20
Cobalt, Total	14.5	44.4	47.4	**74**	Q	-	-		75-125	-		20
Copper, Total	31.4	22.2	41.5	**45**	Q	-	-		75-125	-		20
Iron, Total	20900	88.9	19200	**0**	Q	-	-		75-125	-		20
Lead, Total	79.6	47.1	105	**54**	Q	-	-		75-125	-		20
Magnesium, Total	6210	889	6230	**2**	Q	-	-		75-125	-		20
Manganese, Total	352	44.4	342	**0**	Q	-	-		75-125	-		20
Nickel, Total	31.9	44.4	54.6	**51**	Q	-	-		75-125	-		20
Potassium, Total	5960	889	6220	**29**	Q	-	-		75-125	-		20
Selenium, Total	0.624J	10.7	9.21	86		-	-		75-125	-		20
Silver, Total	ND	26.7	25.8	97		-	-		75-125	-		20
Sodium, Total	130J	889	884	99		-	-		75-125	-		20
Thallium, Total	ND	10.7	8.85	83		-	-		75-125	-		20
Vanadium, Total	36.0	44.4	67.3	**70**	Q	-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-24 QC Batch ID: WG1563969-3 QC Sample: L2158501-04 Client ID: MS Sample										
Zinc, Total	112	44.4	117	**11**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 13-24 QC Batch ID: WG1563970-3 QC Sample: L2158501-04 Client ID: MS Sample										
Mercury, Total	0.107	0.161	0.242	84		-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-24 QC Batch ID: WG1563969-4 QC Sample: L2158501-04 Client ID: DUP Sample						
Aluminum, Total	11200	11400	mg/kg	2		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	2.38	1.96	mg/kg	19		20
Barium, Total	120	119	mg/kg	1		20
Beryllium, Total	0.776	0.694	mg/kg	11		20
Cadmium, Total	0.570J	0.530J	mg/kg	NC		20
Calcium, Total	4090	3820	mg/kg	7		20
Chromium, Total	83.3	63.3	mg/kg	**27**	Q	20
Cobalt, Total	14.5	13.3	mg/kg	9		20
Copper, Total	31.4	26.1	mg/kg	18		20
Iron, Total	20900	21200	mg/kg	1		20
Lead, Total	79.6	73.0	mg/kg	9		20
Magnesium, Total	6210	6190	mg/kg	0		20
Manganese, Total	352	339	mg/kg	4		20
Nickel, Total	31.9	21.3	mg/kg	**40**	Q	20
Potassium, Total	5960	6190	mg/kg	4		20
Selenium, Total	0.624J	0.301J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	130J	106J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST

Project Number: 30108678

Lab Number: L2158502

Report Date: 11/09/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-24 QC Batch ID: WG1563969-4 QC Sample: L2158501-04 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	36.0	32.9	mg/kg	9	20
Zinc, Total	112	97.6	mg/kg	14	20
Total Metals - Mansfield Lab Associated sample(s): 13-24 QC Batch ID: WG1563970-4 QC Sample: L2158501-04 Client ID: DUP Sample					
Mercury, Total	0.107	0.115	mg/kg	7	20

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2158502
Report Date: 11/09/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-24 QC Batch ID: WG1563969-6 QC Sample: L2158501-04 Client ID: DUP Sample						
Aluminum, Total	11200	13400	mg/kg	20		20
Barium, Total	120	142	mg/kg	18		20
Calcium, Total	4090	5000	mg/kg	**22**	Q	20
Chromium, Total	83.3	103	mg/kg	**24**	Q	20
Copper, Total	31.4	37.4	mg/kg	19		20
Iron, Total	20900	25800	mg/kg	**23**	Q	20
Magnesium, Total	6210	7520	mg/kg	**21**	Q	20
Manganese, Total	352	434	mg/kg	**23**	Q	20
Potassium, Total	5960	7130	mg/kg	20		20
Vanadium, Total	36.0	43.8	mg/kg	**22**	Q	20
Zinc, Total	112	141	mg/kg	**26**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-01
Client ID: B-1 (14-14.5)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/25/21 09:15
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.9		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-02
Client ID: B-2 (9.5-10)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/25/21 09:25
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-03
Client ID: B-3 (4.5-5)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/25/21 09:35
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.1		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-04
Client ID: B-7 (6.5-7)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/25/21 10:25
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-05
Client ID: B-7 (10-10.5)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/25/21 10:30
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-06
Client ID: B-8 (8-8.5)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/25/21 10:10
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-07
Client ID: B-9 (7.5-8)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/25/21 11:10
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-08
Client ID: B-12 (4.5-5)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/25/21 11:50
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-09
Client ID: B-12 (5.5-6)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/25/21 11:55
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-10
Client ID: B-13 (4.5-5)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/25/21 12:50
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-11
Client ID: B-14 (9.5-10)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/25/21 12:40
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-12
Client ID: B-15 (12-12.5)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/25/21 12:15
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-13
Client ID: COMP-1
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/25/21 15:15
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.6		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-14
Client ID: COMP-2
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/25/21 15:20
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-15
Client ID: COMP-3
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/25/21 15:25
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-16
Client ID: COMP-4
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/25/21 15:30
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-17
Client ID: COMP-5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/25/21 15:35
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-18
Client ID: COMP-6
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/25/21 15:40
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-19
Client ID: COMP-7
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/25/21 15:45
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-20
Client ID: COMP-8
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/25/21 15:50
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	10/27/21 09:28	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-21
Client ID: COMP-9
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/25/21 15:55
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-22
Client ID: COMP-10
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/25/21 16:00
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-23
Client ID: COMP-11
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/25/21 16:05
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678
Lab Number: L2158502
Report Date: 11/09/21

SAMPLE RESULTS

Lab ID: L2158502-24
Client ID: COMP-12
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 10/25/21 16:10
Date Received: 10/26/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	10/27/21 09:43	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST ST

Project Number: 30108678

Lab Number: L2158502

Report Date: 11/09/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1563705-1 QC Sample: L2158502-01 Client ID: B-1 (14-14.5)						
Solids, Total	85.9	86.4	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 21-24 QC Batch ID: WG1563706-1 QC Sample: L2158500-01 Client ID: DUP Sample						
Solids, Total	70.1	68.4	%	2		20

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
D	Absent
E	Absent
G	Absent
H	Absent
I	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158502-01A	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-01B	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-01C	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-01D	Plastic 2oz unpreserved for TS	H	NA		5.0	Y	Absent		TS(7)
L2158502-01E	Glass 500ml/16oz unpreserved	G	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14)
L2158502-01X	Vial MeOH preserved split	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-01Y	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-01Z	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-02A	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-02B	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-02C	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-02D	Plastic 2oz unpreserved for TS	H	NA		5.0	Y	Absent		TS(7)
L2158502-02E	Glass 500ml/16oz unpreserved	E	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L2158502-02X	Vial MeOH preserved split	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-02Y	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-02Z	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158502-03A	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-03B	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-03C	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-03D	Plastic 2oz unpreserved for TS	H	NA		5.0	Y	Absent		TS(7)
L2158502-03E	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-CONTINGENCY(14)
L2158502-03X	Vial MeOH preserved split	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-03Y	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-03Z	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-04A	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-04B	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-04C	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-04D	Plastic 2oz unpreserved for TS	H	NA		5.0	Y	Absent		TS(7)
L2158502-04E	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14)
L2158502-04X	Vial MeOH preserved split	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-04Y	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-04Z	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-05A	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-05B	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-05C	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-05D	Plastic 2oz unpreserved for TS	H	NA		5.0	Y	Absent		TS(7)
L2158502-05E	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-CONTINGENCY(14)
L2158502-05X	Vial MeOH preserved split	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-05Y	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-05Z	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-06A	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-06B	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-06C	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-06D	Plastic 2oz unpreserved for TS	H	NA		5.0	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158502-06E	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14)
L2158502-06X	Vial MeOH preserved split	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-06Y	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-06Z	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-07A	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-07B	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-07C	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-07D	Plastic 2oz unpreserved for TS	H	NA		5.0	Y	Absent		TS(7)
L2158502-07E	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14)
L2158502-07X	Vial MeOH preserved split	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-07Y	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-07Z	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-08A	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-08B	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-08C	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-08D	Plastic 2oz unpreserved for TS	H	NA		5.0	Y	Absent		TS(7)
L2158502-08E	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14)
L2158502-08X	Vial MeOH preserved split	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-08Y	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-08Z	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-09A	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-09B	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-09C	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-09D	Plastic 2oz unpreserved for TS	H	NA		5.0	Y	Absent		TS(7)
L2158502-09E	Glass 500ml/16oz unpreserved	E	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L2158502-09X	Vial MeOH preserved split	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-09Y	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)
L2158502-09Z	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:41	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158502-10A	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-10B	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-10C	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-10D	Plastic 2oz unpreserved for TS	H	NA		5.0	Y	Absent		TS(7)
L2158502-10E	Glass 500ml/16oz unpreserved	E	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L2158502-10X	Vial MeOH preserved split	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-10Y	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:42	PA-8260HLW(14)
L2158502-10Z	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:42	PA-8260HLW(14)
L2158502-11A	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-11B	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-11C	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-11D	Plastic 2oz unpreserved for TS	H	NA		5.0	Y	Absent		TS(7)
L2158502-11E	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14)
L2158502-11X	Vial MeOH preserved split	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-11Y	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:42	PA-8260HLW(14)
L2158502-11Z	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:42	PA-8260HLW(14)
L2158502-12A	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-12B	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-12C	5 gram Encore Sampler	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-12D	Plastic 2oz unpreserved for TS	H	NA		5.0	Y	Absent		TS(7)
L2158502-12E	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14)
L2158502-12X	Vial MeOH preserved split	H	NA		5.0	Y	Absent		PA-8260HLW(14)
L2158502-12Y	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:42	PA-8260HLW(14)
L2158502-12Z	Vial Water preserved split	H	NA		5.0	Y	Absent	27-OCT-21 08:42	PA-8260HLW(14)
L2158502-13A	Metals Only-Glass 60mL/2oz unpreserved	H	NA		5.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158502-13B	Glass 250ml/8oz unpreserved	H	NA		5.0	Y	Absent		PA-8082(365),TS(7),PA-8270SIM(14),PA-8270(14)
L2158502-14A	Metals Only-Glass 60mL/2oz unpreserved	H	NA		5.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180)
L2158502-14B	Glass 250ml/8oz unpreserved	H	NA		5.0	Y	Absent		PA-8082(365),TS(7),PA-8270SIM(14),PA-8270(14)
L2158502-15A	Metals Only-Glass 60mL/2oz unpreserved	H	NA		5.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2158502-15B	Glass 250ml/8oz unpreserved	H	NA		5.0	Y	Absent		PA-8082(365),TS(7),PA-8270SIM(14),PA-8270(14)
L2158502-16A	Metals Only-Glass 60mL/2oz unpreserved	H	NA		5.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2158502-16B	Glass 250ml/8oz unpreserved	H	NA		5.0	Y	Absent		PA-8082(365),TS(7),PA-8270SIM(14),PA-8270(14)
L2158502-17A	Metals Only-Glass 60mL/2oz unpreserved	H	NA		5.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2158502-17B	Glass 250ml/8oz unpreserved	H	NA		5.0	Y	Absent		PA-8082(365),TS(7),PA-8270SIM(14),PA-8270(14)
L2158502-18A	Metals Only-Glass 60mL/2oz unpreserved	H	NA		5.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2158502-18B	Glass 250ml/8oz unpreserved	H	NA		5.0	Y	Absent		PA-8082(365),TS(7),PA-8270SIM(14),PA-8270(14)
L2158502-19A	Metals Only-Glass 60mL/2oz unpreserved	H	NA		5.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158502-19B	Glass 250ml/8oz unpreserved	H	NA		5.0	Y	Absent		PA-8082(365),TS(7),PA-8270SIM(14),PA-8270(14)
L2158502-20A	Metals Only-Glass 60mL/2oz unpreserved	H	NA		5.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2158502-20B	Glass 250ml/8oz unpreserved	H	NA		5.0	Y	Absent		PA-8082(365),TS(7),PA-8270SIM(14),PA-8270(14)
L2158502-21A	Metals Only-Glass 60mL/2oz unpreserved	H	NA		5.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2158502-21B	Glass 250ml/8oz unpreserved	H	NA		5.0	Y	Absent		PA-8082(365),TS(7),PA-8270SIM(14),PA-8270(14)
L2158502-22A	Metals Only-Glass 60mL/2oz unpreserved	H	NA		5.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2158502-22B	Glass 250ml/8oz unpreserved	H	NA		5.0	Y	Absent		PA-8082(365),TS(7),PA-8270SIM(14),PA-8270(14)
L2158502-23A	Metals Only-Glass 60mL/2oz unpreserved	H	NA		5.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2158502-23B	Glass 250ml/8oz unpreserved	H	NA		5.0	Y	Absent		PA-8082(365),TS(7),PA-8270SIM(14),PA-8270(14)
L2158502-24A	Metals Only-Glass 60mL/2oz unpreserved	H	NA		5.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2158502-24B	Glass 250ml/8oz unpreserved	H	NA		5.0	Y	Absent		PA-8082(365),TS(7),PA-8270SIM(14),PA-8270(14)
L2158502-25A	Glass 500ml/16oz unpreserved	G	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-26A	Glass 500ml/16oz unpreserved	G	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-27A	Glass 500ml/16oz unpreserved	G	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158502-28A	Glass 500ml/16oz unpreserved	G	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-29A	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-30A	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-31A	Glass 500ml/16oz unpreserved	G	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-32A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-33A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-34A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-35A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-36A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-37A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-38A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-39A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-40A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-41A	Glass 500ml/16oz unpreserved	E	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-42A	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-43A	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-44A	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-45A	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-46A	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-47A	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-48A	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-49A	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-50A	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-51A	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-52A	Glass 500ml/16oz unpreserved	E	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-53A	Glass 500ml/16oz unpreserved	D	NA		5.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-54A	Glass 500ml/16oz unpreserved	E	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-55A	Glass 500ml/16oz unpreserved	G	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE-S. 51ST ST
Project Number: 30108678

Lab Number: L2158502
Report Date: 11/09/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158502-56A	Glass 500ml/16oz unpreserved	I	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-57A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-58A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-59A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2158502-60A	Glass 500ml/16oz unpreserved	B	NA		4.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE-S. 51ST ST	**Lab Number:**	L2158502
Project Number:	30108678	**Report Date:**	11/09/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST ST	**Lab Number:**	L2158502
Project Number:	30108678	**Report Date:**	11/09/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST ST	**Lab Number:**	L2158502
Project Number:	30108678	**Report Date:**	11/09/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST ST	**Lab Number:**	L2158502
Project Number:	30108678	**Report Date:**	11/09/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 8

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2138502

Client Information

Client: Arcadis
Address: 1 Harvard Way, Suite 5
Hillsborough, NJ 08844
Phone: 908 526 1000
Fax: 908 253 3295
Email: Larry.Brunt@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance - S 51st St
Project Location: Philadelphia, PA
Project #: 30108678
Project Manager: Larry Brunt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: VOCs 8260	PCBs	SVOCs	Metals	SAMPLE HANDLING	Sample Specific Comments	TOTAL # BOTTLES
58602-01	B-1 (14-14.5')	10/25/21	915	SOIL	MS	X						3
-02	B-2 (9.5-10)		925			X						3
-03	B-3 (4.5-5)		935			X						3
-04	B-7 (6.5-7)		1025			X						3
-05	B-7 (10-10.5')		1030			X						3
-06	B-8 (8-8.5')		1010			X						3
-07	B-9 (7.5-8)		1110			X						3
-08	B-12 (4.5-5')		1150			X						3
-09	B-12 (5.5-6)		1155			X						3
-10	B-13 (4.5-5')		1250			X						3

SAMPLE HANDLING: Filtration ☐ Done ☐ Not needed ☐ Lab to do; Preservation ☐ Lab to do (Please specify below)

Container Type	E	A	A	A	
Preservative	A	A	A	A	

Relinquished By:	Date/Time	Received By:	Date/Time
Mark Hitinshi	10/26/21 1215	AAL	10/26/21 13:40
	10/27/21		10/26-/21:00
	10/26-21	AAL	10/26/21 21:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

10/27/21

CHAIN OF CUSTODY

PAGE 2 OF 8

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158562

Client Information

Client: Arcadis

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance - S. 51st St

Project Location:

Project #:

Project Manager: Larry Brunt

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: VOCs 8260	PCBs	SVOCs	Metals	SAMPLE HANDLING	Sample Specific Comments	TOTAL # BOTTLES
58502-11	B-14 (9.5-10)	10/25/21	1240	SOIL	MS	X						3
-12	B-15 (12-12.5)		1215			X						3
-13	Comp-1		1515				X	X	X			2
-14	Comp-2		1520				X	X	X			2
-15	Comp-3		1525				X	X	X			2
-16	Comp-4		1530				X	X	X			2
-17	Comp-5		1535				X	X	X			2
-18	Comp-6		1540				X	X	X			2
-19	Comp-7		1545				X	X	X			2
-20	Comp-8		1550				X	X	X			2

Filtration ☐ Done ☐ Not needed ☐ Lab to do
Preservation ☐ Lab to do (Please specify below)

Container Type	E	A	A	A																	
Preservative	A	A	A	A																	

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/26/21 13:45	[illegible] AAL	10/26/21 17:40
[illegible]	10/26/21 [illegible]	[illegible] AAL	10/26/21 21:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

CHAIN OF CUSTODY PAGE 3 OF 8

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158502

Client Information
Client: Arcadis
Address:
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information
Project Name: Alliance - S. 51st St
Project Location:
Project #: 0
Project Manager: Larry Brant
ALPHA Quote #:

Turn-Around Time
☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables
☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information
☐ Same as Client info PO #:

Regulatory Requirements/Report Limits
State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: VOCs 8260	PCBs	SVOCs	Metals	HOLD for analyses	SAMPLE HANDLING	Sample Specific Comments	TOTAL # BOTTLES
58502-21	COMP-9	10/25/21	1555	SOIL	MS	X	X	X					2
-22	COMP-10		1600			X	X	X					2
-23	COMP-11		1605			X	X	X					2
-24	COMP-12		1610			X	X	X					2
-25	B-1 (4.5-5)		905							X		HOLD	1
-26	B-1 (9.5-10)		910							X		HOLD	1
-01	B-1 (14-14.5)		915							X		HOLD	1
-27	B-2 (3.5-4)		920							X		HOLD	1
-02	B-2 (9.5-10)		925							X		HOLD	1
-28	B-2 (14.5-15)		930							X		HOLD	1

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do (Please specify below)

Container Type	E	A	A	A	A	
Preservative	A	A	A	A	A	

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Nitingh	10/26/21 1314		10/26/21 1340
	10/26/21 1900		10/26/21 1900
	10/26 2130		10/26/21 21:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

10/27/21

FORM NO. 101-01 (rev. 19-OCT-07)

CHAIN OF CUSTODY

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ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158502

Client Information
Client: Arcadis
Address:
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information
Project Name: Alliance - S. 51st St
Project Location:
Project #:
Project Manager: Larry Brunt
ALPHA Quote #:

Turn-Around Time
☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables
☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information
☐ Same as Client info PO #:

Regulatory Requirements/Report Limits
State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: VOCs 8260 | 8RCRA | SVOCs | Metals | HOLD for Analysis

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	HOLD for Analysis	Sample Specific Comments	TOTAL # BOTTLES
58502-03	B-3 (4.5-5)	10/25/21	935	SOIL	MS	X	HOLD	1
-29	B-3 (9.5-10)		940			X	HOLD	1
-30	B-3 (14.5-15)		945			X	HOLD	1
-31	B-4 (4.5-5)		950			X	HOLD	1
-32	B-4 (13.5-		955			X	HOLD	1
-33	B-4 (14.5-15)		1000			X	HOLD	1
-34	B-5 (4.5-5)		1050			X	HOLD	1
-35	B-5 (9-9.5)		1055			X	HOLD	1
-36	B-5 (14-14.5)		1100			X	HOLD	1
-37	B-6 (~~10-10.5~~ 2-2.5)		1035			X	HOLD	1

Container Type	B	A	A	A	A									
Preservative	A	A	A	A	A									

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Wilusz	10/26/21 1345	AAL	10/26/21 13:40
	10/26/21 1826		1026 - 1826
	1026 - 2130	AAL	10/26/21 21:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

10/27/21

FORM NO. 01-01 (rev. 10-OCT-07)

CHAIN OF CUSTODY

PAGE 5 OF 8

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158302

Client Information

Client: Arcadis
Address:
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance - S. 51st St
Project Location:
Project #:
Project Manager: Larry Brunt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: VOCs 8260 | PCBs | SVOCs | Metals | Hold for Analysis

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260	PCBs	SVOCs	Metals	Hold for Analysis	Sample Specific Comments	TOTAL # BOTTLES
58502-38	B-6 (6.5-7)	10/25/21	1040	SOIL	MS					X	HOLD	1
-39	B-6 (10-10.5)		1045							X	HOLD	1
-40	B-7 (3.5-4)		1020							X	HOLD	1
-04	B-7 (6.5-7)		1025							X	HOLD	1
-05	B-7 (10-10.5)		1030							X	HOLD	1
-41	B-8 (4.5-5)		1005							X	HOLD	1
-06	B-8 (8-8.5)		1010							X	HOLD	1
-42	B-8 (11-11.5)		1015							X	HOLD	1
-43	B-9 (4.5-5)		1105							X	HOLD	1
-07	B-9 (7.5-8)		1110							X	HOLD	1

Container Type	B	A	A	A	A
Preservative	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilliard	10/26/21 1315		10/26/21 1340
	10/26/21 1600		10/26/21 1600
	10/26/21		10/26/21 20:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW JERSEY CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 6 of 8

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158502

Client Information
Client: Arcadis
Address:
Phone:
Fax:
Email:

Project Information
Project Name: Allwave - S. 5th St
Project Location:
Project #
(Use Project name as Project #)
Project Manager: Larry Brink
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260	PCBs	SVOCs	Metals	TAL Metals for Analysis				Sample Specific Comments	Total Bottle
L2158502-44	B-9 (11.5-12)	10/25/21	1115	SOIL	MS					X				HOLD	1
-45	B-10 (4.5-5)		1120							X				HOLD	1
-46	B-10 (9.5-10)		1125							X				HOLD	1
-47	B-10 (14.5-15)		1130							X				HOLD	1
-48	B-11 (4.5-5)		1135							X				HOLD	1
-49	B-11 (9.5-10)		1140							X				HOLD	1
-50	B-11 (14.5-15)		1145							X				HOLD	1
-08	B-12 (4.5-5)		1150							X				HOLD	1
-09	B-12 (5.5-6)		1155							X				HOLD	1
-51	B-12 (10-10.5)		1200							X				HOLD	1

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	E	A	A	A	A			
Preservative	A	A	A	A	A			

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Nilash	10/26/21 17:00	[illegible]	10/26/21 17:40
[illegible]	10/26/21 19:00	[illegible]	10/26/21 19:00
[illegible]	10/26 21:30	[illegible]	10/26/21 21:30
[illegible]		[illegible]	10/27/21 0150

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTANTS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

[illegible] 10/27/21 0335

10/27/21 0336

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 7 of 8

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158302

Client Information
Client: Arcadis
Address:
Phone:
Fax:
Email:

Project Information
Project Name: Alliance - S, 51st St
Project Location:
Project #
(Use Project name as Project #) ☐
Project Manager: Larry Brunt
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260	PCBs	SVOCs	Metals	Hold for Analysis				Sample Specific Comments	Total Bottle
58502-10	B-13 (4.5-5)	10/25/21	1250	SOIL	MS					X				HOLD	1
-52	B-13 (9.5-10)		1255							X				HOLD	1
-53	B-13 (14.5-15)		1300							X				HOLD	1
-54	B-14 (4.5-5)		1235							X				HOLD	1
-11	B-14 (9.5-10)		1240							X				HOLD	1
-55	B-14 (14.5-15)		1245							X				HOLD	1
-56	B-15 (4.5-5)		1205							X				HOLD	1
-57	B-15 (9.5-10)		1210							X				HOLD	1
-12	B-15 (12-12.5)		1215							X				HOLD	1
-58	B-16 (4.5-5)		1220							X				HOLD	1

Container Type	E	A	A	A	A				
Preservative	A	A	A	A	A				

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Nilsson	10/26/21 1345	[illegible] AAL	10/26/21 17:40
[illegible]	10/26/21 1800	[illegible]	10/26 1800
[illegible]	10/26 2130	[illegible]	10/26/21 21:30
[illegible] AAL	10/27/21 0335	[illegible]	10/27/21 0335

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Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 8 of 8

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158302-

Client Information
Client: Arcadis
Address:
Phone:
Fax:
Email:

Project Information
Project Name: Alliance - S. 51st
Project Location:
Project #
(Use Project name as Project #) ☐
Project Manager: Larry Brant
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs Soils	PCBs	SVOCs	Metals	Hold for Analysis				Sample Specific Comments	Total Bottles
58302-59	B-16 (9.5-10)	10/25/21	1225	SOIL	MS					X				HOLD	1
-60	B-16 (14.5-15)	1	1230	1	1					X				HOLD	1

Container Type: E A A A A
Preservative: A A A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Williams	10/26/21 1314	AAL	10/26/21 1314
	10/26/21 1600		1600
	10/26 2130	AAL	10/26/21 2130
AAL	10/27/21 0358	AAL	10/27/21 0358

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Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page (of 1

Date Rec'd in Lab: 6/28/21

ALPHA Job #: L2158502

Client Information

Client: Arcadis
Address: 1 Hayward Mill Rd Ste 5
Phillipsburgh NJ
Phone: 908-526-1010
Fax:
Email: Larry.Grant@arcadis.com

Project Information

Project Name: Allstate Site Closure
Project Location: Phillipsburgh NJ
Project #: 30106478 / L2158502
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time

Standard
Rush (only if pre approved)
Due Date:
# of Days:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
- Category 1
- Category 2

For VOC, selection is REQUIRED:
- 1,4-Dioxane
- 8011

Other project specific requirements/comments:
Missing Sample L2158502-56
Please specify Metals or TAL.

Deliverables

- NJ Full / Reduced
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Regulatory Requirement

- SRS Residential/Non Residential
- SRS Impact to Groundwater
- NJ Ground Water Quality Standards
- NJ IGW SPLP Leachate Criteria
- Other

Billing Information

- Same as Client Info

PO #

Site Information

Is this site impacted by Petroleum? Yes

Petroleum Product:

ANALYSIS

Missing Sample From L2158502

Sample Filtration

- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	Total Bottle
58502-56	B-15 (4.5-5)	10/25/21	12:15			L2158502-56	1

Container Type: A
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Williams	10/25/21 9:30		
	10/28/21 11:40	Paul Mazzella	10/28/21 11:40
Paul Mazzella	10/28/21 1530		
			10/28/21 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2213931
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678.03C
Report Date:	04/12/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2213931-01	MW-8 (5.5-6)	SOIL	PHILA., PA	03/16/22 12:10	03/17/22
L2213931-02	SB-201 (8.5-9)	SOIL	PHILA., PA	03/16/22 14:05	03/17/22
L2213931-03	SB-202 (8.5-9)	SOIL	PHILA., PA	03/16/22 14:20	03/17/22
L2213931-04	SB-203 (8.5-9)	SOIL	PHILA., PA	03/16/22 14:30	03/17/22
L2213931-05	SB-204 (8.5-9)	SOIL	PHILA., PA	03/16/22 14:35	03/17/22
L2213931-06	SB-205 (3.5-4)	SOIL	PHILA., PA	03/16/22 14:45	03/17/22
L2213931-07	SB-206 (2.5-3)	SOIL	PHILA., PA	03/17/22 08:35	03/17/22
L2213931-08	SB-207 (4-4.5)	SOIL	PHILA., PA	03/17/22 08:50	03/17/22
L2213931-09	SB-208 (4-4.5)	SOIL	PHILA., PA	03/17/22 09:00	03/17/22
L2213931-10	SB-209 (3.5-4)	SOIL	PHILA., PA	03/17/22 09:25	03/17/22
L2213931-11	SB-210 (4-4.5)	SOIL	PHILA., PA	03/17/22 09:35	03/17/22
L2213931-12	SB-211 (3.5-4)	SOIL	PHILA., PA	03/17/22 09:40	03/17/22
L2213931-13	SB-212 (4.5-5)	SOIL	PHILA., PA	03/17/22 10:00	03/17/22
L2213931-14	SB-213 (4-4.5)	SOIL	PHILA., PA	03/17/22 10:10	03/17/22
L2213931-15	SB-214 (4-4.5)	SOIL	PHILA., PA	03/17/22 10:20	03/17/22
L2213931-16	SB-215 (4.5-5)	SOIL	PHILA., PA	03/17/22 10:30	03/17/22
L2213931-17	SB-216 (3.5-4)	SOIL	PHILA., PA	03/17/22 10:40	03/17/22
L2213931-18	SB-217 (8.5-9)	SOIL	PHILA., PA	03/17/22 11:25	03/17/22
L2213931-19	DUP-1	SOIL	PHILA., PA	03/17/22 00:00	03/17/22
L2213931-20	FIELD BLANK	WATER	PHILA., PA	03/17/22 11:35	03/17/22
L2213931-21	TRIP BLANK	WATER	PHILA., PA	03/17/22 00:00	03/17/22

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

Case Narrative (continued)

Report Revision

April 12, 2022: The Volatile Organics reporting list has been amended to include Naphthalene, 1,2,4-Trimethylbenzene, and 1,3,5-Trimethylbenzene. Additionally, the Client IDs have been corrected on L2213931-02 through -18.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2213931-02D, -06D, and -18D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

The surrogate recovery for the following samples is outside the acceptance criteria for 4-bromofluorobenzene; however, the samples were not re-analyzed due to coelution with an obvious interference. Copies of the chromatograms are included as an attachment to this report:

L2213931-02D: 150%

L2213931-05D: 213%

L2213931-06D: 133%

L2213931-07: 220%

L2213931-08 (Low Level): 132%

L2213931-18D: 155%

L2213931-04: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (198%) due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2213931-05D: The surrogate recovery is outside the method acceptance criteria for dibromofluoromethane (62%) due to interference with the Internal Standard.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

Case Narrative (continued)

L2213931-08: The sample was analyzed as a High Level Methanol based upon screen results. The sample was then analyzed as a Low Level in order to achieve lower reporting limits. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies.

L2213931-14D, -16 (High and Low Levels), -16R, and -19 (High and Low Levels): The result for naphthalene should be considered estimated, and is qualified with an E flag. The sample was not re-analyzed on dilution.

L2213931-16 (Low Level): The internal standard (IS) response for 1,4-dichlorobenzene-d4 (29%) and the surrogate recovery for 4-bromofluorobenzene (150%) were outside the acceptance criteria; however, re-analysis achieved the following results: chlorobenzene-d5 (46%), 1,4-dichlorobenzene-d4 (25%), and 4-bromofluorobenzene (149%). The results of both analyses are reported.

L2213931-16: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported.

L2213931-17 (High Level): The concentration of napthalene should be considered estimated due to suspected contamination from a previously analyzed, highly concentrated sample.

L2213931-17 and -19: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the Volatile Organics by EPA Method 5035/8260 High and Low Level analyses which have been attributed to sample non-homogeneity.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 04/12/22

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-01
Client ID: MW-8 (5.5-6)
Sample Location: PHILA., PA

Date Collected: 03/16/22 12:10
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 09:19
Analyst: KJD
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.011	0.0010	1
Chloromethane	ND		mg/kg	0.0045	0.0010	1
Vinyl chloride	ND		mg/kg	0.0011	0.00038	1
Bromomethane	ND		mg/kg	0.0023	0.00066	1
Chloroethane	ND		mg/kg	0.0023	0.00051	1
Trichlorofluoromethane	ND		mg/kg	0.0045	0.00079	1
1,1-Dichloroethene	ND		mg/kg	0.0011	0.00027	1
Carbon disulfide	ND		mg/kg	0.011	0.0052	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0045	0.00079	1
Methylene chloride	ND		mg/kg	0.0057	0.0026	1
Acetone	0.021	J	mg/kg	0.028	0.011	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00016	1
Methyl Acetate	ND		mg/kg	0.0045	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
1,1-Dichloroethane	ND		mg/kg	0.0011	0.00016	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0011	0.00020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0011	0.00016	1
Cyclohexane	ND		mg/kg	0.011	0.00062	1
Bromochloromethane	ND		mg/kg	0.0023	0.00023	1
Chloroform	ND		mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0011	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00057	0.00019	1
2-Butanone	0.0031	J	mg/kg	0.011	0.0025	1
Benzene	ND		mg/kg	0.00057	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0011	0.00029	1
Methyl cyclohexane	0.00090	J	mg/kg	0.0045	0.00068	1
Trichloroethene	ND		mg/kg	0.00057	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0011	0.00014	1

Project Name: ALLIANCE 51ST STREET
Lab Number: L2213931
Project Number: 30108678.03C
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-01
Client ID: MW-8 (5.5-6)
Sample Location: PHILA., PA

Date Collected: 03/16/22 12:10
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00057	0.00012	1
1,4-Dioxane	ND		mg/kg	0.091	0.040	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00057	0.00018	1
Toluene	0.00064	J	mg/kg	0.0011	0.00062	1
4-Methyl-2-pentanone	ND		mg/kg	0.011	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00057	0.00022	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00031	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00057	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0011	0.00030	1
Dibromochloromethane	ND		mg/kg	0.0011	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00057	0.00033	1
2-Hexanone	ND		mg/kg	0.011	0.0013	1
Chlorobenzene	ND		mg/kg	0.00057	0.00014	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0023	0.00064	1
o-Xylene	ND		mg/kg	0.0011	0.00033	1
Xylenes, Total	ND		mg/kg	0.0011	0.00033	1
Styrene	0.00027	J	mg/kg	0.0011	0.00022	1
Bromoform	ND		mg/kg	0.0045	0.00028	1
Isopropylbenzene	0.00028	J	mg/kg	0.0011	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00057	0.00019	1
1,3,5-Trimethylbenzene	0.00037	J	mg/kg	0.0023	0.00022	1
1,2,4-Trimethylbenzene	0.0011	J	mg/kg	0.0023	0.00038	1
1,3-Dichlorobenzene	ND		mg/kg	0.0023	0.00017	1
1,4-Dichlorobenzene	ND		mg/kg	0.0023	0.00019	1
1,2-Dichlorobenzene	ND		mg/kg	0.0023	0.00016	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0034	0.0011	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0023	0.00031	1
Naphthalene	0.0018	J	mg/kg	0.0045	0.00074	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0023	0.00037	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-01 Date Collected: 03/16/22 12:10

Client ID: MW-8 (5.5-6) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.0885	J	mg/kg			1
Unknown Aromatic	0.0102	J	mg/kg			1
Unknown	0.00638	J	mg/kg			1
Unknown Alkane	0.00924	J	mg/kg			1
Unknown Naphthalene	0.00985	J	mg/kg			1
Unknown Benzene	0.00636	J	mg/kg			1
Unknown	0.00620	J	mg/kg			1
Unknown Aromatic	0.00907	J	mg/kg			1
Unknown Aromatic	0.0117	J	mg/kg			1
Unknown	0.00926	J	mg/kg			1
Unknown Naphthalene	0.0102	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-02 D
Client ID: SB-201 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:05
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 09:42
Analyst: KJD
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	5.1	0.47	5
Chloromethane	ND		mg/kg	2.0	0.48	5
Vinyl chloride	ND		mg/kg	0.51	0.17	5
Bromomethane	ND		mg/kg	1.0	0.30	5
Chloroethane	ND		mg/kg	1.0	0.23	5
Trichlorofluoromethane	ND		mg/kg	2.0	0.36	5
1,1-Dichloroethene	ND		mg/kg	0.51	0.12	5
Carbon disulfide	ND		mg/kg	5.1	2.3	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	2.0	0.36	5
Methylene chloride	ND		mg/kg	2.6	1.2	5
Acetone	ND		mg/kg	5.1	2.5	5
trans-1,2-Dichloroethene	ND		mg/kg	0.77	0.070	5
Methyl Acetate	1.8	J	mg/kg	2.0	0.49	5
Methyl tert butyl ether	ND		mg/kg	1.0	0.10	5
1,1-Dichloroethane	ND		mg/kg	0.51	0.074	5
cis-1,2-Dichloroethene	ND		mg/kg	0.51	0.090	5
1,2-Dichloroethene, Total	ND		mg/kg	0.51	0.070	5
Cyclohexane	0.30	J	mg/kg	5.1	0.28	5
Bromochloromethane	ND		mg/kg	1.0	0.10	5
Chloroform	ND		mg/kg	0.77	0.072	5
Carbon tetrachloride	ND		mg/kg	0.51	0.12	5
1,1,1-Trichloroethane	ND		mg/kg	0.26	0.086	5
2-Butanone	ND		mg/kg	5.1	1.1	5
Benzene	ND		mg/kg	0.26	0.085	5
1,2-Dichloroethane	ND		mg/kg	0.51	0.13	5
Methyl cyclohexane	4.1		mg/kg	2.0	0.31	5
Trichloroethene	ND		mg/kg	0.26	0.070	5
1,2-Dichloropropane	ND		mg/kg	0.51	0.064	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-02 D Date Collected: 03/16/22 14:05

Client ID: SB-201 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.26	0.056	5
1,4-Dioxane	ND		mg/kg	41	18.	5
cis-1,3-Dichloropropene	ND		mg/kg	0.26	0.081	5
Toluene	ND		mg/kg	0.51	0.28	5
4-Methyl-2-pentanone	ND		mg/kg	5.1	0.66	5
Tetrachloroethene	ND		mg/kg	0.26	0.10	5
trans-1,3-Dichloropropene	ND		mg/kg	0.51	0.14	5
1,3-Dichloropropene, Total	ND		mg/kg	0.26	0.081	5
1,1,2-Trichloroethane	ND		mg/kg	0.51	0.14	5
Dibromochloromethane	ND		mg/kg	0.51	0.072	5
1,2-Dibromoethane	ND		mg/kg	0.26	0.15	5
2-Hexanone	ND		mg/kg	5.1	0.61	5
Chlorobenzene	ND		mg/kg	0.26	0.065	5
Ethylbenzene	ND		mg/kg	0.51	0.072	5
p/m-Xylene	ND		mg/kg	1.0	0.29	5
o-Xylene	ND		mg/kg	0.51	0.15	5
Xylenes, Total	ND		mg/kg	0.51	0.15	5
Styrene	ND		mg/kg	0.51	0.10	5
Bromoform	ND		mg/kg	2.0	0.13	5
Isopropylbenzene	1.4		mg/kg	0.51	0.056	5
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.26	0.085	5
1,3,5-Trimethylbenzene	0.12	J	mg/kg	1.0	0.099	5
1,2,4-Trimethylbenzene	0.27	J	mg/kg	1.0	0.17	5
1,3-Dichlorobenzene	ND		mg/kg	1.0	0.076	5
1,4-Dichlorobenzene	ND		mg/kg	1.0	0.088	5
1,2-Dichlorobenzene	ND		mg/kg	1.0	0.074	5
1,2-Dibromo-3-chloropropane	ND		mg/kg	1.5	0.51	5
1,2,4-Trichlorobenzene	ND		mg/kg	1.0	0.14	5
Naphthalene	0.41	J	mg/kg	2.0	0.33	5
1,2,3-Trichlorobenzene	ND		mg/kg	1.0	0.16	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-02 D Date Collected: 03/16/22 14:05

Client ID: SB-201 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	336.	J	mg/kg			5
Unknown Aromatic	32.6	J	mg/kg			5
Unknown	33.6	J	mg/kg			5
Unknown	34.5	J	mg/kg			5
Unknown Aromatic	39.1	J	mg/kg			5
Unknown Benzene	26.0	J	mg/kg			5
Unknown	37.4	J	mg/kg			5
Unknown	39.3	J	mg/kg			5
Unknown	25.6	J	mg/kg			5
Unknown	40.0	J	mg/kg			5
Unknown Cyclohexane	27.9	J	mg/kg			5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	**150**	Q	70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-03 D2 Date Collected: 03/16/22 14:20
Client ID: SB-202 (8.5-9) Date Received: 03/17/22
Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/28/22 16:53
Analyst: KJD
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	8.1	0.74	10
Chloromethane	ND		mg/kg	3.2	0.75	10
Vinyl chloride	ND		mg/kg	0.81	0.27	10
Bromomethane	ND		mg/kg	1.6	0.47	10
Chloroethane	ND		mg/kg	1.6	0.36	10
Trichlorofluoromethane	ND		mg/kg	3.2	0.56	10
1,1-Dichloroethene	ND		mg/kg	0.81	0.19	10
Carbon disulfide	ND		mg/kg	8.1	3.7	10
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	3.2	0.56	10
Methylene chloride	ND		mg/kg	4.0	1.8	10
Acetone	ND		mg/kg	8.1	3.9	10
trans-1,2-Dichloroethene	ND		mg/kg	1.2	0.11	10
Methyl Acetate	ND		mg/kg	3.2	0.77	10
Methyl tert butyl ether	ND		mg/kg	1.6	0.16	10
1,1-Dichloroethane	ND		mg/kg	0.81	0.12	10
cis-1,2-Dichloroethene	ND		mg/kg	0.81	0.14	10
1,2-Dichloroethene, Total	ND		mg/kg	0.81	0.11	10
Cyclohexane	41.		mg/kg	8.1	0.44	10
Bromochloromethane	ND		mg/kg	1.6	0.16	10
Chloroform	ND		mg/kg	1.2	0.11	10
Carbon tetrachloride	ND		mg/kg	0.81	0.18	10
1,1,1-Trichloroethane	ND		mg/kg	0.40	0.13	10
2-Butanone	ND		mg/kg	8.1	1.8	10
Benzene	2.6		mg/kg	0.40	0.13	10
1,2-Dichloroethane	ND		mg/kg	0.81	0.21	10
Methyl cyclohexane	260	E	mg/kg	3.2	0.49	10
Trichloroethene	ND		mg/kg	0.40	0.11	10
1,2-Dichloropropane	ND		mg/kg	0.81	0.10	10

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-03 D2 Date Collected: 03/16/22 14:20

Client ID: SB-202 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.40	0.088	10
1,4-Dioxane	ND		mg/kg	65	28.	10
cis-1,3-Dichloropropene	ND		mg/kg	0.40	0.13	10
Toluene	1.9		mg/kg	0.81	0.44	10
4-Methyl-2-pentanone	ND		mg/kg	8.1	1.0	10
Tetrachloroethene	ND		mg/kg	0.40	0.16	10
trans-1,3-Dichloropropene	ND		mg/kg	0.81	0.22	10
1,3-Dichloropropene, Total	ND		mg/kg	0.40	0.13	10
1,1,2-Trichloroethane	ND		mg/kg	0.81	0.22	10
Dibromochloromethane	ND		mg/kg	0.81	0.11	10
1,2-Dibromoethane	ND		mg/kg	0.40	0.24	10
2-Hexanone	ND		mg/kg	8.1	0.95	10
Chlorobenzene	ND		mg/kg	0.40	0.10	10
Ethylbenzene	4.7		mg/kg	0.81	0.11	10
p/m-Xylene	5.8		mg/kg	1.6	0.45	10
o-Xylene	1.1		mg/kg	0.81	0.24	10
Xylenes, Total	6.9		mg/kg	0.81	0.24	10
Styrene	ND		mg/kg	0.81	0.16	10
Bromoform	ND		mg/kg	3.2	0.20	10
Isopropylbenzene	38.		mg/kg	0.81	0.088	10
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.40	0.13	10
1,3,5-Trimethylbenzene	0.64	J	mg/kg	1.6	0.16	10
1,2,4-Trimethylbenzene	1.9		mg/kg	1.6	0.27	10
1,3-Dichlorobenzene	ND		mg/kg	1.6	0.12	10
1,4-Dichlorobenzene	ND		mg/kg	1.6	0.14	10
1,2-Dichlorobenzene	ND		mg/kg	1.6	0.12	10
1,2-Dibromo-3-chloropropane	ND		mg/kg	2.4	0.81	10
1,2,4-Trichlorobenzene	ND		mg/kg	1.6	0.22	10
Naphthalene	1.8	J	mg/kg	3.2	0.52	10
1,2,3-Trichlorobenzene	ND		mg/kg	1.6	0.26	10

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-03 D2 Date Collected: 03/16/22 14:20

Client ID: SB-202 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	1050	J	mg/kg			10
Benzene, Propyl-	91.9	NJ	mg/kg			10
Indan, 1-methyl-	138.	NJ	mg/kg			10
Unknown Aromatic	80.5	J	mg/kg			10
Unknown Cyclohexane	94.6	J	mg/kg			10
Unknown Benzene	157.	J	mg/kg			10
Unknown	120.	J	mg/kg			10
Unknown	64.7	J	mg/kg			10
Unknown Benzene	73.5	J	mg/kg			10
Unknown Aromatic	153.	J	mg/kg			10
Benzene, (2-methyl-1-butenyl)-	75.2	NJ	mg/kg			10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	75		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	130		70-130
Dibromofluoromethane	71		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2213931
Project Number: 30108678.03C
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-03 D
Client ID: SB-202 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:20
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 10:06
Analyst: KJD
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl cyclohexane	410		mg/kg	32	4.9	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	90		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-04
Client ID: SB-203 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:30
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/28/22 17:16
Analyst: KJD
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	1.6	0.14	1
Chloromethane	ND		mg/kg	0.63	0.15	1
Vinyl chloride	ND		mg/kg	0.16	0.053	1
Bromomethane	ND		mg/kg	0.32	0.092	1
Chloroethane	ND		mg/kg	0.32	0.071	1
Trichlorofluoromethane	ND		mg/kg	0.63	0.11	1
1,1-Dichloroethene	ND		mg/kg	0.16	0.038	1
Carbon disulfide	ND		mg/kg	1.6	0.72	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.63	0.11	1
Methylene chloride	ND		mg/kg	0.79	0.36	1
Acetone	ND		mg/kg	1.6	0.76	1
trans-1,2-Dichloroethene	ND		mg/kg	0.24	0.022	1
Methyl Acetate	0.25	J	mg/kg	0.63	0.15	1
Methyl tert butyl ether	ND		mg/kg	0.32	0.032	1
1,1-Dichloroethane	ND		mg/kg	0.16	0.023	1
cis-1,2-Dichloroethene	ND		mg/kg	0.16	0.028	1
1,2-Dichloroethene, Total	ND		mg/kg	0.16	0.022	1
Cyclohexane	12.		mg/kg	1.6	0.086	1
Bromochloromethane	ND		mg/kg	0.32	0.032	1
Chloroform	ND		mg/kg	0.24	0.022	1
Carbon tetrachloride	ND		mg/kg	0.16	0.036	1
1,1,1-Trichloroethane	ND		mg/kg	0.079	0.026	1
2-Butanone	ND		mg/kg	1.6	0.35	1
Benzene	0.40		mg/kg	0.079	0.026	1
1,2-Dichloroethane	ND		mg/kg	0.16	0.040	1
Methyl cyclohexane	53.	E	mg/kg	0.63	0.095	1
Trichloroethene	ND		mg/kg	0.079	0.022	1
1,2-Dichloropropane	ND		mg/kg	0.16	0.020	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-04 Date Collected: 03/16/22 14:30

Client ID: SB-203 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.079	0.017	1
1,4-Dioxane	ND		mg/kg	13	5.5	1
cis-1,3-Dichloropropene	ND		mg/kg	0.079	0.025	1
Toluene	0.83		mg/kg	0.16	0.086	1
4-Methyl-2-pentanone	ND		mg/kg	1.6	0.20	1
Tetrachloroethene	ND		mg/kg	0.079	0.031	1
trans-1,3-Dichloropropene	ND		mg/kg	0.16	0.043	1
1,3-Dichloropropene, Total	ND		mg/kg	0.079	0.025	1
1,1,2-Trichloroethane	ND		mg/kg	0.16	0.042	1
Dibromochloromethane	ND		mg/kg	0.16	0.022	1
1,2-Dibromoethane	ND		mg/kg	0.079	0.046	1
2-Hexanone	ND		mg/kg	1.6	0.18	1
Chlorobenzene	ND		mg/kg	0.079	0.020	1
Ethylbenzene	1.1		mg/kg	0.16	0.022	1
p/m-Xylene	1.9		mg/kg	0.32	0.088	1
o-Xylene	0.39		mg/kg	0.16	0.046	1
Xylenes, Total	2.3		mg/kg	0.16	0.046	1
Styrene	0.031	J	mg/kg	0.16	0.031	1
Bromoform	ND		mg/kg	0.63	0.039	1
Isopropylbenzene	10.		mg/kg	0.16	0.017	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.079	0.026	1
1,3,5-Trimethylbenzene	0.27	J	mg/kg	0.32	0.030	1
1,2,4-Trimethylbenzene	0.92		mg/kg	0.32	0.053	1
1,3-Dichlorobenzene	ND		mg/kg	0.32	0.023	1
1,4-Dichlorobenzene	ND		mg/kg	0.32	0.027	1
1,2-Dichlorobenzene	ND		mg/kg	0.32	0.023	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.47	0.16	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.32	0.043	1
Naphthalene	1.4		mg/kg	0.63	0.10	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.32	0.051	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-04 Date Collected: 03/16/22 14:30

Client ID: SB-203 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	194.	J	mg/kg			1
Benzene, 1,2-diethyl-	18.2	NJ	mg/kg			1
Unknown Benzene	30.8	J	mg/kg			1
Unknown Aromatic	16.1	J	mg/kg			1
Unknown Aromatic	21.0	J	mg/kg			1
Unknown Benzene	17.4	J	mg/kg			1
Unknown Aromatic	14.8	J	mg/kg			1
Unknown Aromatic	16.4	J	mg/kg			1
Unknown Aromatic	33.6	J	mg/kg			1
Unknown Aromatic	11.2	J	mg/kg			1
Benzene, Propyl-	14.6	NJ	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	**198**	Q	70-130
Dibromofluoromethane	84		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2213931
Project Number: 30108678.03C
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-04 D
Client ID: SB-203 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:30
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 10:29
Analyst: KJD
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl cyclohexane	64.		mg/kg	6.3	0.95	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	93		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2213931
Project Number: 30108678.03C
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-05 D2
Client ID: SB-204 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:35
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/30/22 18:01
Analyst: AJK
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methyl cyclohexane	120		mg/kg	3.6	0.54	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	85		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-05 D
Client ID: SB-204 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:35
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/28/22 17:39
Analyst: KJD
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	4.5	0.41	5
Chloromethane	ND		mg/kg	1.8	0.42	5
Vinyl chloride	ND		mg/kg	0.45	0.15	5
Bromomethane	ND		mg/kg	0.90	0.26	5
Chloroethane	ND		mg/kg	0.90	0.20	5
Trichlorofluoromethane	ND		mg/kg	1.8	0.31	5
1,1-Dichloroethene	ND		mg/kg	0.45	0.11	5
Carbon disulfide	ND		mg/kg	4.5	2.0	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.8	0.31	5
Methylene chloride	ND		mg/kg	2.2	1.0	5
Acetone	ND		mg/kg	4.5	2.2	5
trans-1,2-Dichloroethene	ND		mg/kg	0.68	0.062	5
Methyl Acetate	ND		mg/kg	1.8	0.43	5
Methyl tert butyl ether	ND		mg/kg	0.90	0.090	5
1,1-Dichloroethane	ND		mg/kg	0.45	0.065	5
cis-1,2-Dichloroethene	ND		mg/kg	0.45	0.079	5
1,2-Dichloroethene, Total	ND		mg/kg	0.45	0.062	5
Cyclohexane	58.		mg/kg	4.5	0.24	5
Bromochloromethane	ND		mg/kg	0.90	0.092	5
Chloroform	ND		mg/kg	0.68	0.063	5
Carbon tetrachloride	ND		mg/kg	0.45	0.10	5
1,1,1-Trichloroethane	ND		mg/kg	0.22	0.075	5
2-Butanone	ND		mg/kg	4.5	1.0	5
Benzene	0.59		mg/kg	0.22	0.075	5
1,2-Dichloroethane	ND		mg/kg	0.45	0.12	5
Methyl cyclohexane	150	E	mg/kg	1.8	0.27	5
Trichloroethene	ND		mg/kg	0.22	0.062	5
1,2-Dichloropropane	ND		mg/kg	0.45	0.056	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-05 D
Client ID: SB-204 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:35
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.22	0.049	5
1,4-Dioxane	ND		mg/kg	36	16.	5
cis-1,3-Dichloropropene	ND		mg/kg	0.22	0.071	5
Toluene	0.79		mg/kg	0.45	0.24	5
4-Methyl-2-pentanone	ND		mg/kg	4.5	0.58	5
Tetrachloroethene	ND		mg/kg	0.22	0.088	5
trans-1,3-Dichloropropene	ND		mg/kg	0.45	0.12	5
1,3-Dichloropropene, Total	ND		mg/kg	0.22	0.071	5
1,1,2-Trichloroethane	ND		mg/kg	0.45	0.12	5
Dibromochloromethane	ND		mg/kg	0.45	0.063	5
1,2-Dibromoethane	ND		mg/kg	0.22	0.13	5
2-Hexanone	ND		mg/kg	4.5	0.53	5
Chlorobenzene	ND		mg/kg	0.22	0.057	5
Ethylbenzene	3.1		mg/kg	0.45	0.063	5
p/m-Xylene	3.2		mg/kg	0.90	0.25	5
o-Xylene	0.53		mg/kg	0.45	0.13	5
Xylenes, Total	3.7		mg/kg	0.45	0.13	5
Styrene	ND		mg/kg	0.45	0.088	5
Bromoform	ND		mg/kg	1.8	0.11	5
Isopropylbenzene	26.		mg/kg	0.45	0.049	5
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.22	0.075	5
1,3,5-Trimethylbenzene	1.0		mg/kg	0.90	0.087	5
1,2,4-Trimethylbenzene	2.0		mg/kg	0.90	0.15	5
1,3-Dichlorobenzene	ND		mg/kg	0.90	0.067	5
1,4-Dichlorobenzene	ND		mg/kg	0.90	0.077	5
1,2-Dichlorobenzene	ND		mg/kg	0.90	0.065	5
1,2-Dibromo-3-chloropropane	ND		mg/kg	1.4	0.45	5
1,2,4-Trichlorobenzene	ND		mg/kg	0.90	0.12	5
Naphthalene	2.8		mg/kg	1.8	0.29	5
1,2,3-Trichlorobenzene	ND		mg/kg	0.90	0.14	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-05 D Date Collected: 03/16/22 14:35

Client ID: SB-204 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	909.	J	mg/kg			5
Unknown Aromatic	120.	J	mg/kg			5
Unknown	42.4	J	mg/kg			5
Benzene, Propyl-	84.0	NJ	mg/kg			5
Unknown Benzene	155.	J	mg/kg			5
Unknown Aromatic	81.8	J	mg/kg			5
Unknown Aromatic	62.3	J	mg/kg			5
Unknown Aromatic	43.5	J	mg/kg			5
Unknown Aromatic	124.	J	mg/kg			5
Unknown	121.	J	mg/kg			5
Unknown Benzene	75.3	J	mg/kg			5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	78		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	**213**	Q	70-130
Dibromofluoromethane	**62**	Q	70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-06 D
Client ID: SB-205 (3.5-4)
Sample Location: PHILA., PA

Date Collected: 03/16/22 14:45
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 11:16
Analyst: KJD
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	3.3	0.30	5
Chloromethane	ND		mg/kg	1.3	0.31	5
Vinyl chloride	ND		mg/kg	0.33	0.11	5
Bromomethane	ND		mg/kg	0.67	0.19	5
Chloroethane	ND		mg/kg	0.67	0.15	5
Trichlorofluoromethane	ND		mg/kg	1.3	0.23	5
1,1-Dichloroethene	ND		mg/kg	0.33	0.079	5
Carbon disulfide	ND		mg/kg	3.3	1.5	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.3	0.23	5
Methylene chloride	ND		mg/kg	1.7	0.76	5
Acetone	ND		mg/kg	3.3	1.6	5
trans-1,2-Dichloroethene	ND		mg/kg	0.50	0.046	5
Methyl Acetate	ND		mg/kg	1.3	0.32	5
Methyl tert butyl ether	ND		mg/kg	0.67	0.067	5
1,1-Dichloroethane	ND		mg/kg	0.33	0.048	5
cis-1,2-Dichloroethene	ND		mg/kg	0.33	0.058	5
1,2-Dichloroethene, Total	ND		mg/kg	0.33	0.046	5
Cyclohexane	2.7	J	mg/kg	3.3	0.18	5
Bromochloromethane	ND		mg/kg	0.67	0.068	5
Chloroform	ND		mg/kg	0.50	0.047	5
Carbon tetrachloride	ND		mg/kg	0.33	0.077	5
1,1,1-Trichloroethane	ND		mg/kg	0.17	0.056	5
2-Butanone	ND		mg/kg	3.3	0.74	5
Benzene	0.091	J	mg/kg	0.17	0.055	5
1,2-Dichloroethane	ND		mg/kg	0.33	0.086	5
Methyl cyclohexane	8.0		mg/kg	1.3	0.20	5
Trichloroethene	ND		mg/kg	0.17	0.046	5
1,2-Dichloropropane	ND		mg/kg	0.33	0.042	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-06 D Date Collected: 03/16/22 14:45

Client ID: SB-205 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.17	0.036	5
1,4-Dioxane	ND		mg/kg	27	12.	5
cis-1,3-Dichloropropene	ND		mg/kg	0.17	0.053	5
Toluene	0.62		mg/kg	0.33	0.18	5
4-Methyl-2-pentanone	ND		mg/kg	3.3	0.43	5
Tetrachloroethene	ND		mg/kg	0.17	0.065	5
trans-1,3-Dichloropropene	ND		mg/kg	0.33	0.091	5
1,3-Dichloropropene, Total	ND		mg/kg	0.17	0.053	5
1,1,2-Trichloroethane	ND		mg/kg	0.33	0.089	5
Dibromochloromethane	ND		mg/kg	0.33	0.047	5
1,2-Dibromoethane	ND		mg/kg	0.17	0.098	5
2-Hexanone	ND		mg/kg	3.3	0.39	5
Chlorobenzene	ND		mg/kg	0.17	0.042	5
Ethylbenzene	0.32	J	mg/kg	0.33	0.047	5
p/m-Xylene	1.4		mg/kg	0.67	0.19	5
o-Xylene	0.28	J	mg/kg	0.33	0.097	5
Xylenes, Total	1.7	J	mg/kg	0.33	0.097	5
Styrene	0.067	J	mg/kg	0.33	0.065	5
Bromoform	ND		mg/kg	1.3	0.082	5
Isopropylbenzene	0.21	J	mg/kg	0.33	0.036	5
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.17	0.055	5
1,3,5-Trimethylbenzene	1.2		mg/kg	0.67	0.064	5
1,2,4-Trimethylbenzene	2.7		mg/kg	0.67	0.11	5
1,3-Dichlorobenzene	ND		mg/kg	0.67	0.049	5
1,4-Dichlorobenzene	ND		mg/kg	0.67	0.057	5
1,2-Dichlorobenzene	ND		mg/kg	0.67	0.048	5
1,2-Dibromo-3-chloropropane	ND		mg/kg	1.0	0.33	5
1,2,4-Trichlorobenzene	ND		mg/kg	0.67	0.091	5
Naphthalene	0.39	J	mg/kg	1.3	0.22	5
1,2,3-Trichlorobenzene	ND		mg/kg	0.67	0.11	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-06 D Date Collected: 03/16/22 14:45

Client ID: SB-205 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	174.	J	mg/kg			5
Unknown	19.6	J	mg/kg			5
Decane, 4-methyl-	15.8	NJ	mg/kg			5
Unknown Cyclohexane	22.6	J	mg/kg			5
Unknown	13.7	J	mg/kg			5
Unknown	17.5	J	mg/kg			5
Unknown	15.8	J	mg/kg			5
Unknown Alkane	21.3	J	mg/kg			5
Decane (C10)	17.7	NJ	mg/kg			5
Unknown	12.9	J	mg/kg			5
Heptane, 3-methyl-	16.8	NJ	mg/kg			5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	**133**	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-07
Client ID: SB-206 (2.5-3)
Sample Location: PHILA., PA

Date Collected: 03/17/22 08:35
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/28/22 18:48
Analyst: KJD
Percent Solids: 58%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.020	0.0019	1
Chloromethane	ND		mg/kg	0.0082	0.0019	1
Vinyl chloride	ND		mg/kg	0.0020	0.00068	1
Bromomethane	ND		mg/kg	0.0041	0.0012	1
Chloroethane	ND		mg/kg	0.0041	0.00092	1
Trichlorofluoromethane	ND		mg/kg	0.0082	0.0014	1
1,1-Dichloroethene	ND		mg/kg	0.0020	0.00048	1
Carbon disulfide	ND		mg/kg	0.020	0.0093	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0082	0.0014	1
Methylene chloride	ND		mg/kg	0.010	0.0047	1
Acetone	ND		mg/kg	0.051	0.020	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0031	0.00028	1
Methyl Acetate	ND		mg/kg	0.0082	0.0019	1
Methyl tert butyl ether	ND		mg/kg	0.0041	0.00041	1
1,1-Dichloroethane	ND		mg/kg	0.0020	0.00030	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00036	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0020	0.00028	1
Cyclohexane	0.0073	J	mg/kg	0.020	0.0011	1
Bromochloromethane	ND		mg/kg	0.0041	0.00042	1
Chloroform	ND		mg/kg	0.0031	0.00028	1
Carbon tetrachloride	ND		mg/kg	0.0020	0.00047	1
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00034	1
2-Butanone	ND		mg/kg	0.020	0.0045	1
Benzene	0.0031		mg/kg	0.0010	0.00034	1
1,2-Dichloroethane	ND		mg/kg	0.0020	0.00052	1
Methyl cyclohexane	0.033		mg/kg	0.0082	0.0012	1
Trichloroethene	ND		mg/kg	0.0010	0.00028	1
1,2-Dichloropropane	ND		mg/kg	0.0020	0.00026	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-07 Date Collected: 03/17/22 08:35

Client ID: SB-206 (2.5-3) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0010	0.00022	1
1,4-Dioxane	ND		mg/kg	0.16	0.072	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00032	1
Toluene	0.013		mg/kg	0.0020	0.0011	1
4-Methyl-2-pentanone	ND		mg/kg	0.020	0.0026	1
Tetrachloroethene	ND		mg/kg	0.0010	0.00040	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0020	0.00056	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00032	1
1,1,2-Trichloroethane	ND		mg/kg	0.0020	0.00054	1
Dibromochloromethane	ND		mg/kg	0.0020	0.00028	1
1,2-Dibromoethane	ND		mg/kg	0.0010	0.00060	1
2-Hexanone	ND		mg/kg	0.020	0.0024	1
Chlorobenzene	ND		mg/kg	0.0010	0.00026	1
Ethylbenzene	0.0054		mg/kg	0.0020	0.00029	1
p/m-Xylene	0.025		mg/kg	0.0041	0.0011	1
o-Xylene	0.0066		mg/kg	0.0020	0.00059	1
Xylenes, Total	0.032		mg/kg	0.0020	0.00059	1
Styrene	0.00050	J	mg/kg	0.0020	0.00040	1
Bromoform	ND		mg/kg	0.0082	0.00050	1
Isopropylbenzene	0.00067	J	mg/kg	0.0020	0.00022	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00034	1
1,3,5-Trimethylbenzene	0.017		mg/kg	0.0041	0.00039	1
1,2,4-Trimethylbenzene	0.022		mg/kg	0.0041	0.00068	1
1,3-Dichlorobenzene	ND		mg/kg	0.0041	0.00030	1
1,4-Dichlorobenzene	ND		mg/kg	0.0041	0.00035	1
1,2-Dichlorobenzene	ND		mg/kg	0.0041	0.00029	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0061	0.0020	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0041	0.00056	1
Naphthalene	0.0051	J	mg/kg	0.0082	0.0013	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0041	0.00066	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-07 Date Collected: 03/17/22 08:35

Client ID: SB-206 (2.5-3) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	3.57	J	mg/kg			1
Unknown	0.419	J	mg/kg			1
Unknown Cyclohexane	0.251	J	mg/kg			1
Unknown Aromatic	0.196	J	mg/kg			1
Unknown	0.450	J	mg/kg			1
Unknown	0.498	J	mg/kg			1
Unknown	0.466	J	mg/kg			1
Unknown	0.212	J	mg/kg			1
Unknown	0.420	J	mg/kg			1
Unknown	0.230	J	mg/kg			1
Unknown	0.424	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	**220**	Q	70-130
Dibromofluoromethane	78		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08
Client ID: SB-207 (4-4.5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 08:50
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/29/22 21:16
Analyst: KJD
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.015	0.0014	1
Chloromethane	ND		mg/kg	0.0062	0.0014	1
Vinyl chloride	ND		mg/kg	0.0015	0.00052	1
Bromomethane	ND		mg/kg	0.0031	0.00090	1
Chloroethane	ND		mg/kg	0.0031	0.00070	1
Trichlorofluoromethane	ND		mg/kg	0.0062	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0015	0.00037	1
Carbon disulfide	ND		mg/kg	0.015	0.0070	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0062	0.0011	1
Methylene chloride	ND		mg/kg	0.0077	0.0035	1
Acetone	0.069		mg/kg	0.039	0.015	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0023	0.00021	1
Methyl Acetate	ND		mg/kg	0.0062	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0031	0.00031	1
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00022	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00027	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0015	0.00021	1
Cyclohexane	0.050		mg/kg	0.015	0.00084	1
Bromochloromethane	ND		mg/kg	0.0031	0.00032	1
Chloroform	ND		mg/kg	0.0023	0.00022	1
Carbon tetrachloride	ND		mg/kg	0.0015	0.00036	1
1,1,1-Trichloroethane	ND		mg/kg	0.00077	0.00026	1
2-Butanone	0.010	J	mg/kg	0.015	0.0034	1
Benzene	0.021		mg/kg	0.00077	0.00026	1
1,2-Dichloroethane	ND		mg/kg	0.0015	0.00040	1
Methyl cyclohexane	0.063		mg/kg	0.0062	0.00093	1
Trichloroethene	ND		mg/kg	0.00077	0.00021	1
1,2-Dichloropropane	ND		mg/kg	0.0015	0.00019	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08 Date Collected: 03/17/22 08:50

Client ID: SB-207 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00077	0.00017	1
1,4-Dioxane	ND		mg/kg	0.12	0.054	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00077	0.00024	1
Toluene	0.024		mg/kg	0.0015	0.00084	1
4-Methyl-2-pentanone	ND		mg/kg	0.015	0.0020	1
Tetrachloroethene	ND		mg/kg	0.00077	0.00030	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0015	0.00042	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00077	0.00024	1
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00041	1
Dibromochloromethane	ND		mg/kg	0.0015	0.00022	1
1,2-Dibromoethane	ND		mg/kg	0.00077	0.00045	1
2-Hexanone	ND		mg/kg	0.015	0.0018	1
Chlorobenzene	ND		mg/kg	0.00077	0.00020	1
Ethylbenzene	0.013		mg/kg	0.0015	0.00022	1
p/m-Xylene	0.025		mg/kg	0.0031	0.00087	1
o-Xylene	0.030		mg/kg	0.0015	0.00045	1
Xylenes, Total	0.055		mg/kg	0.0015	0.00045	1
Styrene	ND		mg/kg	0.0015	0.00030	1
Bromoform	ND		mg/kg	0.0062	0.00038	1
Isopropylbenzene	0.0078		mg/kg	0.0015	0.00017	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00077	0.00026	1
1,3,5-Trimethylbenzene	0.035		mg/kg	0.0031	0.00030	1
1,2,4-Trimethylbenzene	0.047		mg/kg	0.0031	0.00052	1
1,3-Dichlorobenzene	ND		mg/kg	0.0031	0.00023	1
1,4-Dichlorobenzene	ND		mg/kg	0.0031	0.00026	1
1,2-Dichlorobenzene	ND		mg/kg	0.0031	0.00022	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0046	0.0015	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0031	0.00042	1
Naphthalene	0.13		mg/kg	0.0062	0.0010	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0031	0.00050	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08 Date Collected: 03/17/22 08:50

Client ID: SB-207 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.326	J	mg/kg			1
Unknown Cyclohexane	0.0210	J	mg/kg			1
Unknown Benzene	0.0448	J	mg/kg			1
Unknown	0.0349	J	mg/kg			1
Unknown Alkane	0.0502	J	mg/kg			1
Cyclohexane, 1,1,3-trimethyl-	0.0243	NJ	mg/kg			1
Pentane, 2-methyl-	0.0320	NJ	mg/kg			1
Unknown Benzene	0.0261	J	mg/kg			1
Butane, 2-Methyl-	0.0220	NJ	mg/kg			1
Cyclopentane, Methyl-	0.0292	NJ	mg/kg			1
Unknown Benzene	0.0414	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	**132**	Q	70-130
Dibromofluoromethane	86		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08
Client ID: SB-207 (4-4.5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 08:50
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/30/22 17:36
Analyst: KJD
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	1.1	0.097	1
Chloromethane	ND		mg/kg	0.42	0.099	1
Vinyl chloride	ND		mg/kg	0.11	0.036	1
Bromomethane	ND		mg/kg	0.21	0.062	1
Chloroethane	ND		mg/kg	0.21	0.048	1
Trichlorofluoromethane	ND		mg/kg	0.42	0.074	1
1,1-Dichloroethene	ND		mg/kg	0.11	0.025	1
Carbon disulfide	ND		mg/kg	1.1	0.48	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.42	0.074	1
Methylene chloride	ND		mg/kg	0.53	0.24	1
Acetone	ND		mg/kg	1.1	0.51	1
trans-1,2-Dichloroethene	ND		mg/kg	0.16	0.014	1
Methyl Acetate	ND		mg/kg	0.42	0.10	1
Methyl tert butyl ether	0.029	J	mg/kg	0.21	0.021	1
1,1-Dichloroethane	ND		mg/kg	0.11	0.015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.11	0.018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.11	0.014	1
Cyclohexane	1.7		mg/kg	1.1	0.058	1
Bromochloromethane	ND		mg/kg	0.21	0.022	1
Chloroform	ND		mg/kg	0.16	0.015	1
Carbon tetrachloride	ND		mg/kg	0.11	0.024	1
1,1,1-Trichloroethane	ND		mg/kg	0.053	0.018	1
2-Butanone	ND		mg/kg	1.1	0.24	1
Benzene	0.19		mg/kg	0.053	0.018	1
1,2-Dichloroethane	ND		mg/kg	0.11	0.027	1
Methyl cyclohexane	1.8		mg/kg	0.42	0.064	1
Trichloroethene	ND		mg/kg	0.053	0.014	1
1,2-Dichloropropane	ND		mg/kg	0.11	0.013	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08 Date Collected: 03/17/22 08:50

Client ID: SB-207 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.053	0.012	1
1,4-Dioxane	ND		mg/kg	8.5	3.7	1
cis-1,3-Dichloropropene	ND		mg/kg	0.053	0.017	1
Toluene	0.53		mg/kg	0.11	0.058	1
4-Methyl-2-pentanone	ND		mg/kg	1.1	0.14	1
Tetrachloroethene	ND		mg/kg	0.053	0.021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.11	0.029	1
1,3-Dichloropropene, Total	ND		mg/kg	0.053	0.017	1
1,1,2-Trichloroethane	ND		mg/kg	0.11	0.028	1
Dibromochloromethane	ND		mg/kg	0.11	0.015	1
1,2-Dibromoethane	ND		mg/kg	0.053	0.031	1
2-Hexanone	ND		mg/kg	1.1	0.12	1
Chlorobenzene	ND		mg/kg	0.053	0.013	1
Ethylbenzene	0.34		mg/kg	0.11	0.015	1
p/m-Xylene	0.85		mg/kg	0.21	0.059	1
o-Xylene	0.62		mg/kg	0.11	0.031	1
Xylenes, Total	1.5		mg/kg	0.11	0.031	1
Styrene	ND		mg/kg	0.11	0.021	1
Bromoform	ND		mg/kg	0.42	0.026	1
Isopropylbenzene	0.12		mg/kg	0.11	0.012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.053	0.018	1
1,3,5-Trimethylbenzene	0.45		mg/kg	0.21	0.020	1
1,2,4-Trimethylbenzene	0.47		mg/kg	0.21	0.035	1
1,3-Dichlorobenzene	ND		mg/kg	0.21	0.016	1
1,4-Dichlorobenzene	ND		mg/kg	0.21	0.018	1
1,2-Dichlorobenzene	ND		mg/kg	0.21	0.015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.32	0.10	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.21	0.029	1
Naphthalene	0.15	J	mg/kg	0.42	0.069	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.21	0.034	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08 Date Collected: 03/17/22 08:50

Client ID: SB-207 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	18.5	J	mg/kg			1
Heptane, 3-methyl-	1.03	NJ	mg/kg			1
Unknown Cyclohexane	0.779	J	mg/kg			1
Pentane, 2-methyl-	2.20	NJ	mg/kg			1
Octane	2.88	NJ	mg/kg			1
Unknown	0.880	J	mg/kg			1
Cyclopentane, Methyl-	2.05	NJ	mg/kg			1
Hexane, 3-methyl-	1.77	NJ	mg/kg			1
Unknown	0.777	J	mg/kg			1
Pentane, 3-methyl-	1.34	NJ	mg/kg			1
Heptane	4.80	NJ	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-09
Client ID: SB-208 (4-4.5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 09:00
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 12:26
Analyst: KJD
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.013	0.0012	1
Chloromethane	ND		mg/kg	0.0052	0.0012	1
Vinyl chloride	ND		mg/kg	0.0013	0.00043	1
Bromomethane	ND		mg/kg	0.0026	0.00075	1
Chloroethane	ND		mg/kg	0.0026	0.00058	1
Trichlorofluoromethane	ND		mg/kg	0.0052	0.00090	1
1,1-Dichloroethene	ND		mg/kg	0.0013	0.00031	1
Carbon disulfide	ND		mg/kg	0.013	0.0059	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0052	0.00089	1
Methylene chloride	ND		mg/kg	0.0064	0.0030	1
Acetone	0.042		mg/kg	0.032	0.013	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0019	0.00018	1
Methyl Acetate	ND		mg/kg	0.0052	0.0012	1
Methyl tert butyl ether	0.00069	J	mg/kg	0.0026	0.00026	1
1,1-Dichloroethane	ND		mg/kg	0.0013	0.00019	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0013	0.00022	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0013	0.00018	1
Cyclohexane	ND		mg/kg	0.013	0.00070	1
Bromochloromethane	ND		mg/kg	0.0026	0.00026	1
Chloroform	ND		mg/kg	0.0019	0.00018	1
Carbon tetrachloride	ND		mg/kg	0.0013	0.00030	1
1,1,1-Trichloroethane	ND		mg/kg	0.00064	0.00022	1
2-Butanone	0.0064	J	mg/kg	0.013	0.0029	1
Benzene	ND		mg/kg	0.00064	0.00021	1
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00033	1
Methyl cyclohexane	ND		mg/kg	0.0052	0.00078	1
Trichloroethene	ND		mg/kg	0.00064	0.00018	1
1,2-Dichloropropane	ND		mg/kg	0.0013	0.00016	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-09 Date Collected: 03/17/22 09:00

Client ID: SB-208 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00064	0.00014	1
1,4-Dioxane	ND		mg/kg	0.10	0.045	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00064	0.00020	1
Toluene	0.00095	J	mg/kg	0.0013	0.00070	1
4-Methyl-2-pentanone	ND		mg/kg	0.013	0.0016	1
Tetrachloroethene	ND		mg/kg	0.00064	0.00025	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0013	0.00035	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00064	0.00020	1
1,1,2-Trichloroethane	ND		mg/kg	0.0013	0.00034	1
Dibromochloromethane	ND		mg/kg	0.0013	0.00018	1
1,2-Dibromoethane	ND		mg/kg	0.00064	0.00038	1
2-Hexanone	ND		mg/kg	0.013	0.0015	1
Chlorobenzene	ND		mg/kg	0.00064	0.00016	1
Ethylbenzene	ND		mg/kg	0.0013	0.00018	1
p/m-Xylene	ND		mg/kg	0.0026	0.00072	1
o-Xylene	ND		mg/kg	0.0013	0.00038	1
Xylenes, Total	ND		mg/kg	0.0013	0.00038	1
Styrene	0.00025	J	mg/kg	0.0013	0.00025	1
Bromoform	ND		mg/kg	0.0052	0.00032	1
Isopropylbenzene	ND		mg/kg	0.0013	0.00014	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00064	0.00021	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0026	0.00025	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0026	0.00043	1
1,3-Dichlorobenzene	ND		mg/kg	0.0026	0.00019	1
1,4-Dichlorobenzene	ND		mg/kg	0.0026	0.00022	1
1,2-Dichlorobenzene	ND		mg/kg	0.0026	0.00018	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0039	0.0013	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0026	0.00035	1
Naphthalene	ND		mg/kg	0.0052	0.00084	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0026	0.00042	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-09 Date Collected: 03/17/22 09:00

Client ID: SB-208 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.0157	J	mg/kg			1
Unknown	0.00623	J	mg/kg			1
Cyclotrisiloxane, Hexamethyl-	0.00294	NJ	mg/kg			1
Unknown	0.00268	J	mg/kg			1
Unknown	0.00386	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-10
Client ID: SB-209 (3.5-4)
Sample Location: PHILA., PA

Date Collected: 03/17/22 09:25
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 12:49
Analyst: KJD
Percent Solids: 58%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.019	0.0018	1
Chloromethane	ND		mg/kg	0.0077	0.0018	1
Vinyl chloride	ND		mg/kg	0.0019	0.00065	1
Bromomethane	ND		mg/kg	0.0038	0.0011	1
Chloroethane	ND		mg/kg	0.0038	0.00087	1
Trichlorofluoromethane	ND		mg/kg	0.0077	0.0013	1
1,1-Dichloroethene	ND		mg/kg	0.0019	0.00046	1
Carbon disulfide	ND		mg/kg	0.019	0.0088	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0077	0.0013	1
Methylene chloride	ND		mg/kg	0.0096	0.0044	1
Acetone	ND		mg/kg	0.048	0.019	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0029	0.00026	1
Methyl Acetate	ND		mg/kg	0.0077	0.0018	1
Methyl tert butyl ether	ND		mg/kg	0.0038	0.00039	1
1,1-Dichloroethane	ND		mg/kg	0.0019	0.00028	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0019	0.00034	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0019	0.00026	1
Cyclohexane	0.0056	J	mg/kg	0.019	0.0010	1
Bromochloromethane	ND		mg/kg	0.0038	0.00040	1
Chloroform	ND		mg/kg	0.0029	0.00027	1
Carbon tetrachloride	ND		mg/kg	0.0019	0.00044	1
1,1,1-Trichloroethane	ND		mg/kg	0.00096	0.00032	1
2-Butanone	ND		mg/kg	0.019	0.0043	1
Benzene	0.0014		mg/kg	0.00096	0.00032	1
1,2-Dichloroethane	0.00054	J	mg/kg	0.0019	0.00050	1
Methyl cyclohexane	0.016		mg/kg	0.0077	0.0012	1
Trichloroethene	ND		mg/kg	0.00096	0.00026	1
1,2-Dichloropropane	ND		mg/kg	0.0019	0.00024	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-10 Date Collected: 03/17/22 09:25

Client ID: SB-209 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00096	0.00021	1
1,4-Dioxane	ND		mg/kg	0.15	0.068	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00096	0.00030	1
Toluene	0.0025		mg/kg	0.0019	0.0010	1
4-Methyl-2-pentanone	ND		mg/kg	0.019	0.0025	1
Tetrachloroethene	ND		mg/kg	0.00096	0.00038	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0019	0.00053	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00096	0.00030	1
1,1,2-Trichloroethane	ND		mg/kg	0.0019	0.00051	1
Dibromochloromethane	ND		mg/kg	0.0019	0.00027	1
1,2-Dibromoethane	ND		mg/kg	0.00096	0.00056	1
2-Hexanone	ND		mg/kg	0.019	0.0023	1
Chlorobenzene	ND		mg/kg	0.00096	0.00024	1
Ethylbenzene	0.00048	J	mg/kg	0.0019	0.00027	1
p/m-Xylene	0.0015	J	mg/kg	0.0038	0.0011	1
o-Xylene	0.0012	J	mg/kg	0.0019	0.00056	1
Xylenes, Total	0.0027	J	mg/kg	0.0019	0.00056	1
Styrene	ND		mg/kg	0.0019	0.00038	1
Bromoform	ND		mg/kg	0.0077	0.00047	1
Isopropylbenzene	0.00022	J	mg/kg	0.0019	0.00021	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00096	0.00032	1
1,3,5-Trimethylbenzene	0.0085		mg/kg	0.0038	0.00037	1
1,2,4-Trimethylbenzene	0.0022	J	mg/kg	0.0038	0.00064	1
1,3-Dichlorobenzene	ND		mg/kg	0.0038	0.00028	1
1,4-Dichlorobenzene	ND		mg/kg	0.0038	0.00033	1
1,2-Dichlorobenzene	ND		mg/kg	0.0038	0.00028	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0058	0.0019	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0038	0.00052	1
Naphthalene	0.0017	J	mg/kg	0.0077	0.0012	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0038	0.00062	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-10 Date Collected: 03/17/22 09:25

Client ID: SB-209 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.228	J	mg/kg			1
Unknown	0.0161	J	mg/kg			1
Unknown Indene	0.0289	J	mg/kg			1
Unknown Benzene	0.0180	J	mg/kg			1
Unknown Aromatic	0.0212	J	mg/kg			1
Unknown Aromatic	0.0390	J	mg/kg			1
Unknown	0.0304	J	mg/kg			1
Unknown Benzene	0.0159	J	mg/kg			1
Unknown Benzene	0.0172	J	mg/kg			1
Unknown Aromatic	0.0182	J	mg/kg			1
Unknown Indene	0.0229	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	126		70-130
Dibromofluoromethane	85		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-11
Client ID: SB-210 (4-4.5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 09:35
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 13:13
Analyst: KJD
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.0093	0.00085	1
Chloromethane	ND		mg/kg	0.0037	0.00087	1
Vinyl chloride	ND		mg/kg	0.00093	0.00031	1
Bromomethane	ND		mg/kg	0.0019	0.00054	1
Chloroethane	ND		mg/kg	0.0019	0.00042	1
Trichlorofluoromethane	ND		mg/kg	0.0037	0.00065	1
1,1-Dichloroethene	ND		mg/kg	0.00093	0.00022	1
Carbon disulfide	ND		mg/kg	0.0093	0.0042	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0037	0.00065	1
Methylene chloride	ND		mg/kg	0.0047	0.0021	1
Acetone	ND		mg/kg	0.023	0.0093	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00013	1
Methyl Acetate	ND		mg/kg	0.0037	0.00088	1
Methyl tert butyl ether	0.00060	J	mg/kg	0.0019	0.00019	1
1,1-Dichloroethane	ND		mg/kg	0.00093	0.00014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.00093	0.00016	1
1,2-Dichloroethene, Total	ND		mg/kg	0.00093	0.00013	1
Cyclohexane	ND		mg/kg	0.0093	0.00051	1
Bromochloromethane	ND		mg/kg	0.0019	0.00019	1
Chloroform	ND		mg/kg	0.0014	0.00013	1
Carbon tetrachloride	ND		mg/kg	0.00093	0.00021	1
1,1,1-Trichloroethane	ND		mg/kg	0.00047	0.00016	1
2-Butanone	ND		mg/kg	0.0093	0.0021	1
Benzene	ND		mg/kg	0.00047	0.00015	1
1,2-Dichloroethane	ND		mg/kg	0.00093	0.00024	1
Methyl cyclohexane	ND		mg/kg	0.0037	0.00056	1
Trichloroethene	ND		mg/kg	0.00047	0.00013	1
1,2-Dichloropropane	ND		mg/kg	0.00093	0.00012	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-11 Date Collected: 03/17/22 09:35

Client ID: SB-210 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00047	0.00010	1
1,4-Dioxane	ND		mg/kg	0.075	0.033	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00047	0.00015	1
Toluene	ND		mg/kg	0.00093	0.00051	1
4-Methyl-2-pentanone	ND		mg/kg	0.0093	0.0012	1
Tetrachloroethene	ND		mg/kg	0.00047	0.00018	1
trans-1,3-Dichloropropene	ND		mg/kg	0.00093	0.00025	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00047	0.00015	1
1,1,2-Trichloroethane	ND		mg/kg	0.00093	0.00025	1
Dibromochloromethane	ND		mg/kg	0.00093	0.00013	1
1,2-Dibromoethane	ND		mg/kg	0.00047	0.00027	1
2-Hexanone	ND		mg/kg	0.0093	0.0011	1
Chlorobenzene	ND		mg/kg	0.00047	0.00012	1
Ethylbenzene	ND		mg/kg	0.00093	0.00013	1
p/m-Xylene	ND		mg/kg	0.0019	0.00052	1
o-Xylene	ND		mg/kg	0.00093	0.00027	1
Xylenes, Total	ND		mg/kg	0.00093	0.00027	1
Styrene	ND		mg/kg	0.00093	0.00018	1
Bromoform	ND		mg/kg	0.0037	0.00023	1
Isopropylbenzene	ND		mg/kg	0.00093	0.00010	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00047	0.00015	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0019	0.00018	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0019	0.00031	1
1,3-Dichlorobenzene	ND		mg/kg	0.0019	0.00014	1
1,4-Dichlorobenzene	ND		mg/kg	0.0019	0.00016	1
1,2-Dichlorobenzene	ND		mg/kg	0.0019	0.00013	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0028	0.00093	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0019	0.00025	1
Naphthalene	ND		mg/kg	0.0037	0.00061	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0019	0.00030	1

Tentatively Identified Compounds				
Total TIC Compounds	0.00462	J	mg/kg	1
Cyclotrisiloxane, Hexamethyl-	0.00270	NJ	mg/kg	1
Unknown	0.00192	J	mg/kg	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-11 Date Collected: 03/17/22 09:35

Client ID: SB-210 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-12
Client ID: SB-211 (3.5-4)
Sample Location: PHILA., PA

Date Collected: 03/17/22 09:40
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 13:37
Analyst: KJD
Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0011	1
Chloromethane	ND		mg/kg	0.0048	0.0011	1
Vinyl chloride	ND		mg/kg	0.0012	0.00040	1
Bromomethane	ND		mg/kg	0.0024	0.00069	1
Chloroethane	ND		mg/kg	0.0024	0.00054	1
Trichlorofluoromethane	ND		mg/kg	0.0048	0.00082	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00028	1
Carbon disulfide	ND		mg/kg	0.012	0.0054	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0048	0.00082	1
Methylene chloride	ND		mg/kg	0.0059	0.0027	1
Acetone	0.023	J	mg/kg	0.030	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0018	0.00016	1
Methyl Acetate	ND		mg/kg	0.0048	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0024	0.00024	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00017	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00021	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00016	1
Cyclohexane	0.0014	J	mg/kg	0.012	0.00065	1
Bromochloromethane	ND		mg/kg	0.0024	0.00024	1
Chloroform	ND		mg/kg	0.0018	0.00017	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00027	1
1,1,1-Trichloroethane	ND		mg/kg	0.00059	0.00020	1
2-Butanone	0.0044	J	mg/kg	0.012	0.0026	1
Benzene	ND		mg/kg	0.00059	0.00020	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1
Methyl cyclohexane	0.0014	J	mg/kg	0.0048	0.00072	1
Trichloroethene	ND		mg/kg	0.00059	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00015	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-12 Date Collected: 03/17/22 09:40

Client ID: SB-211 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00059	0.00013	1
1,4-Dioxane	ND		mg/kg	0.095	0.042	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00059	0.00019	1
Toluene	ND		mg/kg	0.0012	0.00064	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0015	1
Tetrachloroethene	ND		mg/kg	0.00059	0.00023	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00032	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00059	0.00019	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00032	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00017	1
1,2-Dibromoethane	ND		mg/kg	0.00059	0.00035	1
2-Hexanone	ND		mg/kg	0.012	0.0014	1
Chlorobenzene	ND		mg/kg	0.00059	0.00015	1
Ethylbenzene	ND		mg/kg	0.0012	0.00017	1
p/m-Xylene	ND		mg/kg	0.0024	0.00066	1
o-Xylene	ND		mg/kg	0.0012	0.00034	1
Xylenes, Total	ND		mg/kg	0.0012	0.00034	1
Styrene	ND		mg/kg	0.0012	0.00023	1
Bromoform	ND		mg/kg	0.0048	0.00029	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00013	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00059	0.00020	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0024	0.00023	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0024	0.00040	1
1,3-Dichlorobenzene	ND		mg/kg	0.0024	0.00018	1
1,4-Dichlorobenzene	ND		mg/kg	0.0024	0.00020	1
1,2-Dichlorobenzene	ND		mg/kg	0.0024	0.00017	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0036	0.0012	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0024	0.00032	1
Naphthalene	0.0012	J	mg/kg	0.0048	0.00077	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0024	0.00038	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-12 Date Collected: 03/17/22 09:40

Client ID: SB-211 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.0428	J	mg/kg			1
Unknown Aromatic	0.00696	J	mg/kg			1
Unknown Indene	0.00410	J	mg/kg			1
Unknown Aromatic	0.00449	J	mg/kg			1
Unknown Aromatic	0.00634	J	mg/kg			1
Unknown	0.00404	J	mg/kg			1
Unknown Aromatic	0.00291	J	mg/kg			1
Indane	0.00277	NJ	mg/kg			1
Unknown Aromatic	0.00517	J	mg/kg			1
Unknown Naphthalene	0.00267	J	mg/kg			1
Unknown Indene	0.00334	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-13
Client ID: SB-212 (4.5-5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 10:00
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 16:22
Analyst: KJD
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0056	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00047	1
Bromomethane	ND		mg/kg	0.0028	0.00082	1
Chloroethane	ND		mg/kg	0.0028	0.00064	1
Trichlorofluoromethane	ND		mg/kg	0.0056	0.00098	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00034	1
Carbon disulfide	ND		mg/kg	0.014	0.0064	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0056	0.00098	1
Methylene chloride	ND		mg/kg	0.0070	0.0032	1
Acetone	0.020	J	mg/kg	0.035	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00019	1
Methyl Acetate	ND		mg/kg	0.0056	0.0013	1
Methyl tert butyl ether	0.0014	J	mg/kg	0.0028	0.00028	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00020	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00025	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00019	1
Cyclohexane	0.00086	J	mg/kg	0.014	0.00077	1
Bromochloromethane	ND		mg/kg	0.0028	0.00029	1
Chloroform	ND		mg/kg	0.0021	0.00020	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00032	1
1,1,1-Trichloroethane	ND		mg/kg	0.00070	0.00024	1
2-Butanone	0.0035	J	mg/kg	0.014	0.0031	1
Benzene	0.0011		mg/kg	0.00070	0.00023	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00036	1
Methyl cyclohexane	0.0017	J	mg/kg	0.0056	0.00085	1
Trichloroethene	ND		mg/kg	0.00070	0.00019	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00018	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-13 Date Collected: 03/17/22 10:00

Client ID: SB-212 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00070	0.00015	1
1,4-Dioxane	ND		mg/kg	0.11	0.049	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00070	0.00022	1
Toluene	0.0023		mg/kg	0.0014	0.00076	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00070	0.00028	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00038	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00070	0.00022	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00038	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00020	1
1,2-Dibromoethane	ND		mg/kg	0.00070	0.00041	1
2-Hexanone	ND		mg/kg	0.014	0.0017	1
Chlorobenzene	ND		mg/kg	0.00070	0.00018	1
Ethylbenzene	0.00046	J	mg/kg	0.0014	0.00020	1
p/m-Xylene	0.0030		mg/kg	0.0028	0.00079	1
o-Xylene	0.0022		mg/kg	0.0014	0.00041	1
Xylenes, Total	0.0052		mg/kg	0.0014	0.00041	1
Styrene	ND		mg/kg	0.0014	0.00028	1
Bromoform	ND		mg/kg	0.0056	0.00035	1
Isopropylbenzene	0.00019	J	mg/kg	0.0014	0.00015	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00070	0.00023	1
1,3,5-Trimethylbenzene	0.0024	J	mg/kg	0.0028	0.00027	1
1,2,4-Trimethylbenzene	0.0029		mg/kg	0.0028	0.00047	1
1,3-Dichlorobenzene	ND		mg/kg	0.0028	0.00021	1
1,4-Dichlorobenzene	ND		mg/kg	0.0028	0.00024	1
1,2-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0042	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0028	0.00038	1
Naphthalene	0.12		mg/kg	0.0056	0.00092	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0028	0.00045	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-13 Date Collected: 03/17/22 10:00

Client ID: SB-212 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.130	J	mg/kg			1
Unknown	0.0242	J	mg/kg			1
Unknown	0.00684	J	mg/kg			1
Fluorene	0.00618	NJ	mg/kg			1
Unknown	0.00479	J	mg/kg			1
Unknown Aromatic	0.00577	J	mg/kg			1
Unknown Naphthalene	0.00416	J	mg/kg			1
Unknown	0.00639	J	mg/kg			1
Acenaphthene	0.0459	NJ	mg/kg			1
Unknown Aromatic	0.0199	J	mg/kg			1
Unknown Naphthalene	0.00636	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-14 D
Client ID: SB-213 (4-4.5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 10:10
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/31/22 11:04
Analyst: KJD
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	5.8	0.53	5
Chloromethane	ND		mg/kg	2.3	0.54	5
Vinyl chloride	ND		mg/kg	0.58	0.19	5
Bromomethane	ND		mg/kg	1.2	0.34	5
Chloroethane	ND		mg/kg	1.2	0.26	5
Trichlorofluoromethane	ND		mg/kg	2.3	0.40	5
1,1-Dichloroethene	ND		mg/kg	0.58	0.14	5
Carbon disulfide	ND		mg/kg	5.8	2.6	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	2.3	0.40	5
Methylene chloride	ND		mg/kg	2.9	1.3	5
Acetone	ND		mg/kg	5.8	2.8	5
trans-1,2-Dichloroethene	ND		mg/kg	0.87	0.079	5
Methyl Acetate	1.6	J	mg/kg	2.3	0.55	5
Methyl tert butyl ether	ND		mg/kg	1.2	0.12	5
1,1-Dichloroethane	ND		mg/kg	0.58	0.084	5
cis-1,2-Dichloroethene	ND		mg/kg	0.58	0.10	5
1,2-Dichloroethene, Total	ND		mg/kg	0.58	0.079	5
Cyclohexane	0.33	J	mg/kg	5.8	0.31	5
Bromochloromethane	ND		mg/kg	1.2	0.12	5
Chloroform	ND		mg/kg	0.87	0.081	5
Carbon tetrachloride	ND		mg/kg	0.58	0.13	5
1,1,1-Trichloroethane	ND		mg/kg	0.29	0.096	5
2-Butanone	ND		mg/kg	5.8	1.3	5
Benzene	1.8		mg/kg	0.29	0.096	5
1,2-Dichloroethane	ND		mg/kg	0.58	0.15	5
Methyl cyclohexane	0.39	J	mg/kg	2.3	0.35	5
Trichloroethene	ND		mg/kg	0.29	0.079	5
1,2-Dichloropropane	ND		mg/kg	0.58	0.072	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-14 D Date Collected: 03/17/22 10:10

Client ID: SB-213 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.29	0.063	5
1,4-Dioxane	ND		mg/kg	46	20.	5
cis-1,3-Dichloropropene	ND		mg/kg	0.29	0.091	5
Toluene	4.6		mg/kg	0.58	0.31	5
4-Methyl-2-pentanone	ND		mg/kg	5.8	0.74	5
Tetrachloroethene	ND		mg/kg	0.29	0.11	5
trans-1,3-Dichloropropene	ND		mg/kg	0.58	0.16	5
1,3-Dichloropropene, Total	ND		mg/kg	0.29	0.091	5
1,1,2-Trichloroethane	ND		mg/kg	0.58	0.15	5
Dibromochloromethane	ND		mg/kg	0.58	0.081	5
1,2-Dibromoethane	ND		mg/kg	0.29	0.17	5
2-Hexanone	ND		mg/kg	5.8	0.68	5
Chlorobenzene	ND		mg/kg	0.29	0.073	5
Ethylbenzene	4.7		mg/kg	0.58	0.082	5
p/m-Xylene	11.		mg/kg	1.2	0.32	5
o-Xylene	6.9		mg/kg	0.58	0.17	5
Xylenes, Total	18.		mg/kg	0.58	0.17	5
Styrene	0.67		mg/kg	0.58	0.11	5
Bromoform	ND		mg/kg	2.3	0.14	5
Isopropylbenzene	1.3		mg/kg	0.58	0.063	5
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.29	0.096	5
1,3,5-Trimethylbenzene	8.5		mg/kg	1.2	0.11	5
1,2,4-Trimethylbenzene	20.		mg/kg	1.2	0.19	5
1,3-Dichlorobenzene	ND		mg/kg	1.2	0.086	5
1,4-Dichlorobenzene	ND		mg/kg	1.2	0.099	5
1,2-Dichlorobenzene	ND		mg/kg	1.2	0.083	5
1,2-Dibromo-3-chloropropane	ND		mg/kg	1.7	0.58	5
1,2,4-Trichlorobenzene	ND		mg/kg	1.2	0.16	5
Naphthalene	1700	E	mg/kg	2.3	0.38	5
1,2,3-Trichlorobenzene	ND		mg/kg	1.2	0.19	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-14 D Date Collected: 03/17/22 10:10

Client ID: SB-213 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	426.	J	mg/kg			5
Unknown Aromatic	10.3	J	mg/kg			5
Unknown Benzene	8.70	J	mg/kg			5
Indane	38.4	NJ	mg/kg			5
Unknown Aromatic	19.8	J	mg/kg			5
Unknown	13.9	J	mg/kg			5
Unknown	44.6	J	mg/kg			5
Unknown Aromatic	19.1	J	mg/kg			5
Unknown Benzofuran	10.4	J	mg/kg			5
Unknown	195.	J	mg/kg			5
Unknown Aromatic	66.2	J	mg/kg			5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-15
Client ID: SB-214 (4-4.5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 10:20
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 16:46
Analyst: KJD
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00097	1
Chloromethane	ND		mg/kg	0.0042	0.00098	1
Vinyl chloride	ND		mg/kg	0.0010	0.00035	1
Bromomethane	ND		mg/kg	0.0021	0.00061	1
Chloroethane	ND		mg/kg	0.0021	0.00048	1
Trichlorofluoromethane	ND		mg/kg	0.0042	0.00073	1
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00025	1
Carbon disulfide	ND		mg/kg	0.010	0.0048	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0042	0.00073	1
Methylene chloride	ND		mg/kg	0.0053	0.0024	1
Acetone	0.031		mg/kg	0.026	0.010	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00014	1
Methyl Acetate	ND		mg/kg	0.0042	0.0010	1
Methyl tert butyl ether	ND		mg/kg	0.0021	0.00021	1
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00015	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014	1
Cyclohexane	0.00092	J	mg/kg	0.010	0.00057	1
Bromochloromethane	ND		mg/kg	0.0021	0.00022	1
Chloroform	ND		mg/kg	0.0016	0.00015	1
Carbon tetrachloride	ND		mg/kg	0.0010	0.00024	1
1,1,1-Trichloroethane	ND		mg/kg	0.00053	0.00018	1
2-Butanone	0.0053	J	mg/kg	0.010	0.0023	1
Benzene	0.00030	J	mg/kg	0.00053	0.00018	1
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1
Methyl cyclohexane	0.00093	J	mg/kg	0.0042	0.00064	1
Trichloroethene	ND		mg/kg	0.00053	0.00014	1
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00013	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-15 Date Collected: 03/17/22 10:20

Client ID: SB-214 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00053	0.00012	1
1,4-Dioxane	ND		mg/kg	0.084	0.037	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00053	0.00017	1
Toluene	ND		mg/kg	0.0010	0.00057	1
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0014	1
Tetrachloroethene	ND		mg/kg	0.00053	0.00021	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00029	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00053	0.00017	1
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00028	1
Dibromochloromethane	ND		mg/kg	0.0010	0.00015	1
1,2-Dibromoethane	ND		mg/kg	0.00053	0.00031	1
2-Hexanone	ND		mg/kg	0.010	0.0012	1
Chlorobenzene	ND		mg/kg	0.00053	0.00013	1
Ethylbenzene	ND		mg/kg	0.0010	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00059	1
o-Xylene	ND		mg/kg	0.0010	0.00031	1
Xylenes, Total	ND		mg/kg	0.0010	0.00031	1
Styrene	ND		mg/kg	0.0010	0.00021	1
Bromoform	ND		mg/kg	0.0042	0.00026	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00053	0.00018	1
1,3,5-Trimethylbenzene	0.00021	J	mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	0.00046	J	mg/kg	0.0021	0.00035	1
1,3-Dichlorobenzene	ND		mg/kg	0.0021	0.00016	1
1,4-Dichlorobenzene	ND		mg/kg	0.0021	0.00018	1
1,2-Dichlorobenzene	ND		mg/kg	0.0021	0.00015	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0032	0.0010	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0021	0.00029	1
Naphthalene	0.052		mg/kg	0.0042	0.00069	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0021	0.00034	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-15 Date Collected: 03/17/22 10:20

Client ID: SB-214 (4-4.5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.0501	J	mg/kg			1
Acenaphthene	0.00540	NJ	mg/kg			1
Fluorene	0.00259	NJ	mg/kg			1
Unknown Aromatic	0.00967	J	mg/kg			1
Unknown	0.00277	J	mg/kg			1
Unknown Aromatic	0.0138	J	mg/kg			1
Dibenzofuran	0.00277	NJ	mg/kg			1
Unknown Naphthalene	0.00267	J	mg/kg			1
Unknown Naphthalene	0.00346	J	mg/kg			1
Unknown	0.00361	J	mg/kg			1
Cyclotrisiloxane, Hexamethyl-	0.00338	NJ	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16
Client ID: SB-215 (4.5-5)
Sample Location: PHILA., PA
Date Collected: 03/17/22 10:30
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 14:24
Analyst: KJD
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	1.0	0.091	1
Chloromethane	ND		mg/kg	0.40	0.093	1
Vinyl chloride	ND		mg/kg	0.10	0.033	1
Bromomethane	ND		mg/kg	0.20	0.058	1
Chloroethane	ND		mg/kg	0.20	0.045	1
Trichlorofluoromethane	ND		mg/kg	0.40	0.069	1
1,1-Dichloroethene	ND		mg/kg	0.10	0.024	1
Carbon disulfide	ND		mg/kg	1.0	0.45	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.40	0.069	1
Methylene chloride	ND		mg/kg	0.50	0.23	1
Acetone	ND		mg/kg	1.0	0.48	1
trans-1,2-Dichloroethene	ND		mg/kg	0.15	0.014	1
Methyl Acetate	0.32	J	mg/kg	0.40	0.095	1
Methyl tert butyl ether	ND		mg/kg	0.20	0.020	1
1,1-Dichloroethane	ND		mg/kg	0.10	0.014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.10	0.017	1
1,2-Dichloroethene, Total	ND		mg/kg	0.10	0.014	1
Cyclohexane	0.48	J	mg/kg	1.0	0.054	1
Bromochloromethane	ND		mg/kg	0.20	0.020	1
Chloroform	ND		mg/kg	0.15	0.014	1
Carbon tetrachloride	ND		mg/kg	0.10	0.023	1
1,1,1-Trichloroethane	ND		mg/kg	0.050	0.017	1
2-Butanone	ND		mg/kg	1.0	0.22	1
Benzene	0.12		mg/kg	0.050	0.016	1
1,2-Dichloroethane	ND		mg/kg	0.10	0.026	1
Methyl cyclohexane	0.85		mg/kg	0.40	0.060	1
Trichloroethene	ND		mg/kg	0.050	0.014	1
1,2-Dichloropropane	ND		mg/kg	0.10	0.012	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 Date Collected: 03/17/22 10:30

Client ID: SB-215 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.050	0.011	1
1,4-Dioxane	ND		mg/kg	8.0	3.5	1
cis-1,3-Dichloropropene	ND		mg/kg	0.050	0.016	1
Toluene	0.98		mg/kg	0.10	0.054	1
4-Methyl-2-pentanone	ND		mg/kg	1.0	0.13	1
Tetrachloroethene	ND		mg/kg	0.050	0.020	1
trans-1,3-Dichloropropene	ND		mg/kg	0.10	0.027	1
1,3-Dichloropropene, Total	ND		mg/kg	0.050	0.016	1
1,1,2-Trichloroethane	ND		mg/kg	0.10	0.027	1
Dibromochloromethane	ND		mg/kg	0.10	0.014	1
1,2-Dibromoethane	ND		mg/kg	0.050	0.029	1
2-Hexanone	ND		mg/kg	1.0	0.12	1
Chlorobenzene	ND		mg/kg	0.050	0.013	1
Ethylbenzene	0.31		mg/kg	0.10	0.014	1
p/m-Xylene	2.0		mg/kg	0.20	0.056	1
o-Xylene	1.9		mg/kg	0.10	0.029	1
Xylenes, Total	3.9		mg/kg	0.10	0.029	1
Styrene	0.024	J	mg/kg	0.10	0.020	1
Bromoform	ND		mg/kg	0.40	0.024	1
Isopropylbenzene	0.14		mg/kg	0.10	0.011	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.050	0.016	1
1,3,5-Trimethylbenzene	3.6		mg/kg	0.20	0.019	1
1,2,4-Trimethylbenzene	3.3		mg/kg	0.20	0.033	1
1,3-Dichlorobenzene	ND		mg/kg	0.20	0.015	1
1,4-Dichlorobenzene	ND		mg/kg	0.20	0.017	1
1,2-Dichlorobenzene	ND		mg/kg	0.20	0.014	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.30	0.10	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.20	0.027	1
Naphthalene	38.	E	mg/kg	0.40	0.065	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.20	0.032	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 Date Collected: 03/17/22 10:30

Client ID: SB-215 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	52.8	J	mg/kg			1
Unknown Aromatic	2.83	J	mg/kg			1
Benzene, 1-ethenyl-2-methyl-	2.52	NJ	mg/kg			1
Acenaphthene	5.44	NJ	mg/kg			1
Unknown Naphthalene	5.31	J	mg/kg			1
Unknown Aromatic	10.3	J	mg/kg			1
Unknown Aromatic	13.5	J	mg/kg			1
Unknown Benzene	2.82	J	mg/kg			1
Unknown Benzene	2.89	J	mg/kg			1
Unknown Organic Acid	3.82	J	mg/kg			1
Unknown	3.37	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16
Client ID: SB-215 (4.5-5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 10:30
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/30/22 18:52
Analyst: KJD
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0015	1
Chloromethane	ND		mg/kg	0.0064	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00054	1
Bromomethane	ND		mg/kg	0.0032	0.00093	1
Chloroethane	ND		mg/kg	0.0032	0.00073	1
Trichlorofluoromethane	ND		mg/kg	0.0064	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00038	1
Carbon disulfide	0.010	J	mg/kg	0.016	0.0073	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0064	0.0011	1
Methylene chloride	ND		mg/kg	0.0080	0.0037	1
Acetone	0.020	J	mg/kg	0.040	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00022	1
Methyl Acetate	ND		mg/kg	0.0064	0.0015	1
Methyl tert butyl ether	0.00065	J	mg/kg	0.0032	0.00032	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00023	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00028	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00022	1
Cyclohexane	0.052		mg/kg	0.016	0.00088	1
Bromochloromethane	ND		mg/kg	0.0032	0.00033	1
Chloroform	ND		mg/kg	0.0024	0.00022	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00037	1
1,1,1-Trichloroethane	ND		mg/kg	0.00080	0.00027	1
2-Butanone	ND		mg/kg	0.016	0.0036	1
Benzene	0.014		mg/kg	0.00080	0.00027	1
1,2-Dichloroethane	0.00043	J	mg/kg	0.0016	0.00041	1
Methyl cyclohexane	0.042		mg/kg	0.0064	0.00097	1
Trichloroethene	ND		mg/kg	0.00080	0.00022	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00020	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 Date Collected: 03/17/22 10:30

Client ID: SB-215 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00080	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.056	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00080	0.00025	1
Toluene	0.16		mg/kg	0.0016	0.00087	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0020	1
Tetrachloroethene	ND		mg/kg	0.00080	0.00032	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00044	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00080	0.00025	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00043	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00022	1
1,2-Dibromoethane	ND		mg/kg	0.00080	0.00047	1
2-Hexanone	ND		mg/kg	0.016	0.0019	1
Chlorobenzene	ND		mg/kg	0.00080	0.00020	1
Ethylbenzene	0.038		mg/kg	0.0016	0.00023	1
p/m-Xylene	0.27		mg/kg	0.0032	0.00090	1
o-Xylene	0.26		mg/kg	0.0016	0.00047	1
Xylenes, Total	0.53		mg/kg	0.0016	0.00047	1
Styrene	0.0011	J	mg/kg	0.0016	0.00032	1
Bromoform	ND		mg/kg	0.0064	0.00040	1
Isopropylbenzene	0.024		mg/kg	0.0016	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00080	0.00027	1
1,3,5-Trimethylbenzene	0.51	E	mg/kg	0.0032	0.00031	1
1,2,4-Trimethylbenzene	0.46		mg/kg	0.0032	0.00054	1
1,3-Dichlorobenzene	ND		mg/kg	0.0032	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0032	0.00028	1
1,2-Dichlorobenzene	ND		mg/kg	0.0032	0.00023	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0048	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0032	0.00044	1
Naphthalene	2.0	E	mg/kg	0.0064	0.0010	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0032	0.00052	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 Date Collected: 03/17/22 10:30

Client ID: SB-215 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.334	J	mg/kg			1
Cyclopentane, Methyl-	0.0737	NJ	mg/kg			1
Unknown	0.0662	J	mg/kg			1
Pentane	0.0181	NJ	mg/kg			1
Unknown Benzene	0.0185	J	mg/kg			1
Unknown Aromatic	0.0185	J	mg/kg			1
Indane	0.0198	NJ	mg/kg			1
Butane, 2-Methyl-	0.0585	NJ	mg/kg			1
Unknown	0.0192	J	mg/kg			1
Pentane, 3-methyl-	0.0199	NJ	mg/kg			1
Unknown Benzene	0.0217	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	**150**	Q	70-130
Dibromofluoromethane	70		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 R
Client ID: SB-215 (4.5-5)
Sample Location: PHILA., PA

Date Collected: 03/17/22 10:30
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/31/22 10:39
Analyst: KJD
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.017	0.0015	1
Chloromethane	ND		mg/kg	0.0067	0.0016	1
Vinyl chloride	ND		mg/kg	0.0017	0.00056	1
Bromomethane	ND		mg/kg	0.0034	0.00098	1
Chloroethane	ND		mg/kg	0.0034	0.00076	1
Trichlorofluoromethane	ND		mg/kg	0.0067	0.0012	1
1,1-Dichloroethene	ND		mg/kg	0.0017	0.00040	1
Carbon disulfide	ND		mg/kg	0.017	0.0076	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0067	0.0012	1
Methylene chloride	ND		mg/kg	0.0084	0.0038	1
Acetone	0.018	J	mg/kg	0.042	0.017	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0025	0.00023	1
Methyl Acetate	ND		mg/kg	0.0067	0.0016	1
Methyl tert butyl ether	0.00043	J	mg/kg	0.0034	0.00034	1
1,1-Dichloroethane	ND		mg/kg	0.0017	0.00024	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00029	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0017	0.00023	1
Cyclohexane	0.047		mg/kg	0.017	0.00091	1
Bromochloromethane	ND		mg/kg	0.0034	0.00034	1
Chloroform	ND		mg/kg	0.0025	0.00024	1
Carbon tetrachloride	ND		mg/kg	0.0017	0.00039	1
1,1,1-Trichloroethane	ND		mg/kg	0.00084	0.00028	1
2-Butanone	ND		mg/kg	0.017	0.0037	1
Benzene	0.015		mg/kg	0.00084	0.00028	1
1,2-Dichloroethane	0.00044	J	mg/kg	0.0017	0.00043	1
Methyl cyclohexane	0.034		mg/kg	0.0067	0.0010	1
Trichloroethene	ND		mg/kg	0.00084	0.00023	1
1,2-Dichloropropane	ND		mg/kg	0.0017	0.00021	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 R Date Collected: 03/17/22 10:30

Client ID: SB-215 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00084	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.059	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00084	0.00026	1
Toluene	0.19		mg/kg	0.0017	0.00091	1
4-Methyl-2-pentanone	ND		mg/kg	0.017	0.0021	1
Tetrachloroethene	ND		mg/kg	0.00084	0.00033	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0017	0.00046	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00084	0.00026	1
1,1,2-Trichloroethane	ND		mg/kg	0.0017	0.00045	1
Dibromochloromethane	ND		mg/kg	0.0017	0.00024	1
1,2-Dibromoethane	ND		mg/kg	0.00084	0.00049	1
2-Hexanone	ND		mg/kg	0.017	0.0020	1
Chlorobenzene	ND		mg/kg	0.00084	0.00021	1
Ethylbenzene	0.039		mg/kg	0.0017	0.00024	1
p/m-Xylene	0.30		mg/kg	0.0034	0.00094	1
o-Xylene	0.30		mg/kg	0.0017	0.00049	1
Xylenes, Total	0.60		mg/kg	0.0017	0.00049	1
Styrene	0.00092	J	mg/kg	0.0017	0.00033	1
Bromoform	ND		mg/kg	0.0067	0.00041	1
Isopropylbenzene	0.020		mg/kg	0.0017	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00084	0.00028	1
1,3,5-Trimethylbenzene	0.53	E	mg/kg	0.0034	0.00032	1
1,2,4-Trimethylbenzene	0.48		mg/kg	0.0034	0.00056	1
1,3-Dichlorobenzene	ND		mg/kg	0.0034	0.00025	1
1,4-Dichlorobenzene	ND		mg/kg	0.0034	0.00029	1
1,2-Dichlorobenzene	ND		mg/kg	0.0034	0.00024	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0050	0.0017	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0034	0.00046	1
Naphthalene	1.9	E	mg/kg	0.0067	0.0011	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0034	0.00054	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-16 R Date Collected: 03/17/22 10:30

Client ID: SB-215 (4.5-5) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	2.45	J	mg/kg			1
Unknown Aromatic	0.179	J	mg/kg			1
Benzene, 1-ethenyl-3-ethyl-	0.136	NJ	mg/kg			1
Unknown Aromatic	0.166	J	mg/kg			1
Unknown Benzene	0.300	J	mg/kg			1
Indane	0.262	NJ	mg/kg			1
Unknown Benzene	0.224	J	mg/kg			1
Unknown Benzene	0.330	J	mg/kg			1
Unknown Benzene	0.140	J	mg/kg			1
Unknown Benzene	0.512	J	mg/kg			1
Unknown Benzene	0.197	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	129		70-130
4-Bromofluorobenzene	**149**	Q	70-130
Dibromofluoromethane	76		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17
Client ID: SB-216 (3.5-4)
Sample Location: PHILA., PA
Date Collected: 03/17/22 10:40
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 14:48
Analyst: KJD
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.96	0.088	1
Chloromethane	ND		mg/kg	0.39	0.090	1
Vinyl chloride	ND		mg/kg	0.096	0.032	1
Bromomethane	ND		mg/kg	0.19	0.056	1
Chloroethane	ND		mg/kg	0.19	0.044	1
Trichlorofluoromethane	ND		mg/kg	0.39	0.067	1
1,1-Dichloroethene	ND		mg/kg	0.096	0.023	1
Carbon disulfide	ND		mg/kg	0.96	0.44	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.39	0.067	1
Methylene chloride	ND		mg/kg	0.48	0.22	1
Acetone	ND		mg/kg	0.96	0.46	1
trans-1,2-Dichloroethene	ND		mg/kg	0.14	0.013	1
Methyl Acetate	ND		mg/kg	0.39	0.092	1
Methyl tert butyl ether	ND		mg/kg	0.19	0.019	1
1,1-Dichloroethane	ND		mg/kg	0.096	0.014	1
cis-1,2-Dichloroethene	ND		mg/kg	0.096	0.017	1
1,2-Dichloroethene, Total	ND		mg/kg	0.096	0.013	1
Cyclohexane	0.56	J	mg/kg	0.96	0.052	1
Bromochloromethane	ND		mg/kg	0.19	0.020	1
Chloroform	ND		mg/kg	0.14	0.014	1
Carbon tetrachloride	ND		mg/kg	0.096	0.022	1
1,1,1-Trichloroethane	ND		mg/kg	0.048	0.016	1
2-Butanone	ND		mg/kg	0.96	0.21	1
Benzene	0.27		mg/kg	0.048	0.016	1
1,2-Dichloroethane	0.057	J	mg/kg	0.096	0.025	1
Methyl cyclohexane	0.58		mg/kg	0.39	0.058	1
Trichloroethene	ND		mg/kg	0.048	0.013	1
1,2-Dichloropropane	ND		mg/kg	0.096	0.012	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17 Date Collected: 03/17/22 10:40

Client ID: SB-216 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.048	0.010	1
1,4-Dioxane	ND		mg/kg	7.7	3.4	1
cis-1,3-Dichloropropene	ND		mg/kg	0.048	0.015	1
Toluene	1.2		mg/kg	0.096	0.052	1
4-Methyl-2-pentanone	ND		mg/kg	0.96	0.12	1
Tetrachloroethene	ND		mg/kg	0.048	0.019	1
trans-1,3-Dichloropropene	ND		mg/kg	0.096	0.026	1
1,3-Dichloropropene, Total	ND		mg/kg	0.048	0.015	1
1,1,2-Trichloroethane	ND		mg/kg	0.096	0.026	1
Dibromochloromethane	ND		mg/kg	0.096	0.014	1
1,2-Dibromoethane	ND		mg/kg	0.048	0.028	1
2-Hexanone	ND		mg/kg	0.96	0.11	1
Chlorobenzene	ND		mg/kg	0.048	0.012	1
Ethylbenzene	0.21		mg/kg	0.096	0.014	1
p/m-Xylene	2.4		mg/kg	0.19	0.054	1
o-Xylene	2.3		mg/kg	0.096	0.028	1
Xylenes, Total	4.7		mg/kg	0.096	0.028	1
Styrene	0.022	J	mg/kg	0.096	0.019	1
Bromoform	ND		mg/kg	0.39	0.024	1
Isopropylbenzene	0.050	J	mg/kg	0.096	0.010	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.048	0.016	1
1,3,5-Trimethylbenzene	3.6		mg/kg	0.19	0.019	1
1,2,4-Trimethylbenzene	1.8		mg/kg	0.19	0.032	1
1,3-Dichlorobenzene	ND		mg/kg	0.19	0.014	1
1,4-Dichlorobenzene	ND		mg/kg	0.19	0.016	1
1,2-Dichlorobenzene	ND		mg/kg	0.19	0.014	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.29	0.096	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.19	0.026	1
Naphthalene	0.94		mg/kg	0.39	0.063	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.19	0.031	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17 Date Collected: 03/17/22 10:40

Client ID: SB-216 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	48.9	J	mg/kg			1
Unknown Aromatic	6.67	J	mg/kg			1
Unknown	2.92	J	mg/kg			1
Unknown Aromatic	3.36	J	mg/kg			1
Unknown Aromatic	7.02	J	mg/kg			1
Unknown	2.88	J	mg/kg			1
Unknown	7.16	J	mg/kg			1
Unknown Aromatic	4.81	J	mg/kg			1
Unknown Aromatic	6.00	J	mg/kg			1
Unknown Naphthalene	3.37	J	mg/kg			1
Unknown Aromatic	4.75	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17
Client ID: SB-216 (3.5-4)
Sample Location: PHILA., PA

Date Collected: 03/17/22 10:40
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/29/22 21:39
Analyst: KJD
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0056	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00047	1
Bromomethane	ND		mg/kg	0.0028	0.00081	1
Chloroethane	ND		mg/kg	0.0028	0.00063	1
Trichlorofluoromethane	ND		mg/kg	0.0056	0.00097	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00033	1
Carbon disulfide	ND		mg/kg	0.014	0.0064	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0056	0.00097	1
Methylene chloride	ND		mg/kg	0.0070	0.0032	1
Acetone	ND		mg/kg	0.035	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00019	1
Methyl Acetate	ND		mg/kg	0.0056	0.0013	1
Methyl tert butyl ether	ND		mg/kg	0.0028	0.00028	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00020	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00024	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00019	1
Cyclohexane	0.077		mg/kg	0.014	0.00076	1
Bromochloromethane	ND		mg/kg	0.0028	0.00029	1
Chloroform	ND		mg/kg	0.0021	0.00020	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00032	1
1,1,1-Trichloroethane	ND		mg/kg	0.00070	0.00023	1
2-Butanone	ND		mg/kg	0.014	0.0031	1
Benzene	0.0054		mg/kg	0.00070	0.00023	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00036	1
Methyl cyclohexane	0.052		mg/kg	0.0056	0.00084	1
Trichloroethene	ND		mg/kg	0.00070	0.00019	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00017	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17 Date Collected: 03/17/22 10:40

Client ID: SB-216 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00070	0.00015	1
1,4-Dioxane	ND		mg/kg	0.11	0.049	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00070	0.00022	1
Toluene	0.024		mg/kg	0.0014	0.00076	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00070	0.00027	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00038	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00070	0.00022	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00037	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00020	1
1,2-Dibromoethane	ND		mg/kg	0.00070	0.00041	1
2-Hexanone	ND		mg/kg	0.014	0.0016	1
Chlorobenzene	ND		mg/kg	0.00070	0.00018	1
Ethylbenzene	0.0058		mg/kg	0.0014	0.00020	1
p/m-Xylene	0.13		mg/kg	0.0028	0.00078	1
o-Xylene	0.25		mg/kg	0.0014	0.00041	1
Xylenes, Total	0.38		mg/kg	0.0014	0.00041	1
Styrene	ND		mg/kg	0.0014	0.00027	1
Bromoform	ND		mg/kg	0.0056	0.00034	1
Isopropylbenzene	0.0044		mg/kg	0.0014	0.00015	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00070	0.00023	1
1,3,5-Trimethylbenzene	0.43	E	mg/kg	0.0028	0.00027	1
1,2,4-Trimethylbenzene	0.20		mg/kg	0.0028	0.00047	1
1,3-Dichlorobenzene	ND		mg/kg	0.0028	0.00021	1
1,4-Dichlorobenzene	ND		mg/kg	0.0028	0.00024	1
1,2-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0042	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0028	0.00038	1
Naphthalene	0.024		mg/kg	0.0056	0.00091	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0028	0.00045	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17 Date Collected: 03/17/22 10:40

Client ID: SB-216 (3.5-4) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	1.53	J	mg/kg			1
Unknown Benzene	0.192	J	mg/kg			1
Unknown Benzene	0.194	J	mg/kg			1
Unknown Aromatic	0.131	J	mg/kg			1
Unknown	0.258	J	mg/kg			1
Unknown Benzene	0.105	J	mg/kg			1
Unknown Benzene	0.150	J	mg/kg			1
Unknown	0.107	J	mg/kg			1
Unknown Naphthalene	0.122	J	mg/kg			1
Unknown Aromatic	0.133	J	mg/kg			1
Unknown Aromatic	0.140	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	75		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-18 D
Client ID: SB-217 (8.5-9)
Sample Location: PHILA., PA

Date Collected: 03/17/22 11:25
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/29/22 22:25
Analyst: KJD
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	4.0	0.37	5
Chloromethane	ND		mg/kg	1.6	0.37	5
Vinyl chloride	ND		mg/kg	0.40	0.13	5
Bromomethane	ND		mg/kg	0.80	0.23	5
Chloroethane	ND		mg/kg	0.80	0.18	5
Trichlorofluoromethane	ND		mg/kg	1.6	0.28	5
1,1-Dichloroethene	ND		mg/kg	0.40	0.095	5
Carbon disulfide	ND		mg/kg	4.0	1.8	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.6	0.28	5
Methylene chloride	ND		mg/kg	2.0	0.92	5
Acetone	ND		mg/kg	4.0	1.9	5
trans-1,2-Dichloroethene	ND		mg/kg	0.60	0.055	5
Methyl Acetate	ND		mg/kg	1.6	0.38	5
Methyl tert butyl ether	ND		mg/kg	0.80	0.080	5
1,1-Dichloroethane	ND		mg/kg	0.40	0.058	5
cis-1,2-Dichloroethene	ND		mg/kg	0.40	0.070	5
1,2-Dichloroethene, Total	ND		mg/kg	0.40	0.055	5
Cyclohexane	33.		mg/kg	4.0	0.22	5
Bromochloromethane	ND		mg/kg	0.80	0.082	5
Chloroform	ND		mg/kg	0.60	0.056	5
Carbon tetrachloride	ND		mg/kg	0.40	0.092	5
1,1,1-Trichloroethane	ND		mg/kg	0.20	0.067	5
2-Butanone	ND		mg/kg	4.0	0.89	5
Benzene	1.0		mg/kg	0.20	0.066	5
1,2-Dichloroethane	ND		mg/kg	0.40	0.10	5
Methyl cyclohexane	110		mg/kg	1.6	0.24	5
Trichloroethene	ND		mg/kg	0.20	0.055	5
1,2-Dichloropropane	ND		mg/kg	0.40	0.050	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-18 D Date Collected: 03/17/22 11:25

Client ID: SB-217 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.20	0.044	5
1,4-Dioxane	ND		mg/kg	32	14.	5
cis-1,3-Dichloropropene	ND		mg/kg	0.20	0.063	5
Toluene	0.83		mg/kg	0.40	0.22	5
4-Methyl-2-pentanone	ND		mg/kg	4.0	0.51	5
Tetrachloroethene	ND		mg/kg	0.20	0.078	5
trans-1,3-Dichloropropene	ND		mg/kg	0.40	0.11	5
1,3-Dichloropropene, Total	ND		mg/kg	0.20	0.063	5
1,1,2-Trichloroethane	ND		mg/kg	0.40	0.11	5
Dibromochloromethane	ND		mg/kg	0.40	0.056	5
1,2-Dibromoethane	ND		mg/kg	0.20	0.12	5
2-Hexanone	ND		mg/kg	4.0	0.47	5
Chlorobenzene	ND		mg/kg	0.20	0.051	5
Ethylbenzene	0.60		mg/kg	0.40	0.056	5
p/m-Xylene	2.3		mg/kg	0.80	0.22	5
o-Xylene	0.48		mg/kg	0.40	0.12	5
Xylenes, Total	2.8		mg/kg	0.40	0.12	5
Styrene	ND		mg/kg	0.40	0.078	5
Bromoform	ND		mg/kg	1.6	0.098	5
Isopropylbenzene	14.		mg/kg	0.40	0.044	5
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.20	0.066	5
1,3,5-Trimethylbenzene	1.0		mg/kg	0.80	0.077	5
1,2,4-Trimethylbenzene	3.6		mg/kg	0.80	0.13	5
1,3-Dichlorobenzene	ND		mg/kg	0.80	0.059	5
1,4-Dichlorobenzene	ND		mg/kg	0.80	0.068	5
1,2-Dichlorobenzene	ND		mg/kg	0.80	0.058	5
1,2-Dibromo-3-chloropropane	ND		mg/kg	1.2	0.40	5
1,2,4-Trichlorobenzene	ND		mg/kg	0.80	0.11	5
Naphthalene	1.9		mg/kg	1.6	0.26	5
1,2,3-Trichlorobenzene	ND		mg/kg	0.80	0.13	5

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-18 D Date Collected: 03/17/22 11:25

Client ID: SB-217 (8.5-9) Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	414.	J	mg/kg			5
Hexane, 3-methyl-	38.3	NJ	mg/kg			5
Unknown Aromatic	43.5	J	mg/kg			5
Unknown Benzene	24.3	J	mg/kg			5
Benzene, 1,2-diethyl-	29.1	NJ	mg/kg			5
Benzene, (2-methyl-1-butenyl)-	24.1	NJ	mg/kg			5
Heptane, 3-methyl-	63.3	NJ	mg/kg			5
Unknown Benzene	44.0	J	mg/kg			5
Unknown Cyclohexane	54.0	J	mg/kg			5
Unknown Alkane	53.4	J	mg/kg			5
Indan, 1-methyl-	39.9	NJ	mg/kg			5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	80		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	**155**	Q	70-130
Dibromofluoromethane	72		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19
Client ID: DUP-1
Sample Location: PHILA., PA
Date Collected: 03/17/22 00:00
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/22 15:35
Analyst: KJD
Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.89	0.082	1
Chloromethane	ND		mg/kg	0.36	0.083	1
Vinyl chloride	ND		mg/kg	0.089	0.030	1
Bromomethane	ND		mg/kg	0.18	0.052	1
Chloroethane	ND		mg/kg	0.18	0.040	1
Trichlorofluoromethane	ND		mg/kg	0.36	0.062	1
1,1-Dichloroethene	ND		mg/kg	0.089	0.021	1
Carbon disulfide	ND		mg/kg	0.89	0.41	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.36	0.062	1
Methylene chloride	ND		mg/kg	0.45	0.20	1
Acetone	ND		mg/kg	0.89	0.43	1
trans-1,2-Dichloroethene	ND		mg/kg	0.13	0.012	1
Methyl Acetate	ND		mg/kg	0.36	0.085	1
Methyl tert butyl ether	ND		mg/kg	0.18	0.018	1
1,1-Dichloroethane	ND		mg/kg	0.089	0.013	1
cis-1,2-Dichloroethene	ND		mg/kg	0.089	0.016	1
1,2-Dichloroethene, Total	ND		mg/kg	0.089	0.012	1
Cyclohexane	0.17	J	mg/kg	0.89	0.049	1
Bromochloromethane	ND		mg/kg	0.18	0.018	1
Chloroform	ND		mg/kg	0.13	0.012	1
Carbon tetrachloride	ND		mg/kg	0.089	0.020	1
1,1,1-Trichloroethane	ND		mg/kg	0.045	0.015	1
2-Butanone	ND		mg/kg	0.89	0.20	1
Benzene	0.21		mg/kg	0.045	0.015	1
1,2-Dichloroethane	ND		mg/kg	0.089	0.023	1
Methyl cyclohexane	0.21	J	mg/kg	0.36	0.054	1
Trichloroethene	ND		mg/kg	0.045	0.012	1
1,2-Dichloropropane	ND		mg/kg	0.089	0.011	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19 Date Collected: 03/17/22 00:00

Client ID: DUP-1 Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.045	0.0097	1
1,4-Dioxane	ND		mg/kg	7.2	3.1	1
cis-1,3-Dichloropropene	ND		mg/kg	0.045	0.014	1
Toluene	0.78		mg/kg	0.089	0.048	1
4-Methyl-2-pentanone	ND		mg/kg	0.89	0.11	1
Tetrachloroethene	ND		mg/kg	0.045	0.018	1
trans-1,3-Dichloropropene	ND		mg/kg	0.089	0.024	1
1,3-Dichloropropene, Total	ND		mg/kg	0.045	0.014	1
1,1,2-Trichloroethane	ND		mg/kg	0.089	0.024	1
Dibromochloromethane	ND		mg/kg	0.089	0.012	1
1,2-Dibromoethane	ND		mg/kg	0.045	0.026	1
2-Hexanone	ND		mg/kg	0.89	0.10	1
Chlorobenzene	ND		mg/kg	0.045	0.011	1
Ethylbenzene	0.17		mg/kg	0.089	0.013	1
p/m-Xylene	1.0		mg/kg	0.18	0.050	1
o-Xylene	0.84		mg/kg	0.089	0.026	1
Xylenes, Total	1.8		mg/kg	0.089	0.026	1
Styrene	0.059	J	mg/kg	0.089	0.018	1
Bromoform	ND		mg/kg	0.36	0.022	1
Isopropylbenzene	0.040	J	mg/kg	0.089	0.0097	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.045	0.015	1
1,3,5-Trimethylbenzene	0.71		mg/kg	0.18	0.017	1
1,2,4-Trimethylbenzene	0.92		mg/kg	0.18	0.030	1
1,3-Dichlorobenzene	ND		mg/kg	0.18	0.013	1
1,4-Dichlorobenzene	ND		mg/kg	0.18	0.015	1
1,2-Dichlorobenzene	ND		mg/kg	0.18	0.013	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.27	0.089	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.18	0.024	1
Naphthalene	35.	E	mg/kg	0.36	0.058	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.18	0.029	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19 Date Collected: 03/17/22 00:00

Client ID: DUP-1 Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	93.6	J	mg/kg			1
Unknown Biphenyl	3.99	J	mg/kg			1
Unknown Aromatic	14.2	J	mg/kg			1
Unknown Naphthalene	9.36	J	mg/kg			1
Unknown Naphthalene	5.36	J	mg/kg			1
Unknown Aromatic	4.70	J	mg/kg			1
Fluorene	5.65	NJ	mg/kg			1
Unknown Aromatic	24.5	J	mg/kg			1
Unknown Naphthalene	8.82	J	mg/kg			1
Dibenzofuran	7.53	NJ	mg/kg			1
Acenaphthene	9.51	NJ	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	113		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19
Client ID: DUP-1
Sample Location: PHILA., PA
Date Collected: 03/17/22 00:00
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/29/22 23:34
Analyst: KJD
Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0058	0.0014	1
Vinyl chloride	ND		mg/kg	0.0014	0.00048	1
Bromomethane	ND		mg/kg	0.0029	0.00084	1
Chloroethane	ND		mg/kg	0.0029	0.00066	1
Trichlorofluoromethane	ND		mg/kg	0.0058	0.0010	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00034	1
Carbon disulfide	ND		mg/kg	0.014	0.0066	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0058	0.0010	1
Methylene chloride	ND		mg/kg	0.0072	0.0033	1
Acetone	0.060		mg/kg	0.036	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0022	0.00020	1
Methyl Acetate	ND		mg/kg	0.0058	0.0014	1
Methyl tert butyl ether	0.00046	J	mg/kg	0.0029	0.00029	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00021	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00025	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00020	1
Cyclohexane	0.046		mg/kg	0.014	0.00079	1
Bromochloromethane	ND		mg/kg	0.0029	0.00030	1
Chloroform	ND		mg/kg	0.0022	0.00020	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00033	1
1,1,1-Trichloroethane	ND		mg/kg	0.00072	0.00024	1
2-Butanone	0.0066	J	mg/kg	0.014	0.0032	1
Benzene	0.019		mg/kg	0.00072	0.00024	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00037	1
Methyl cyclohexane	0.040		mg/kg	0.0058	0.00087	1
Trichloroethene	ND		mg/kg	0.00072	0.00020	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00018	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19 Date Collected: 03/17/22 00:00

Client ID: DUP-1 Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00072	0.00016	1
1,4-Dioxane	ND		mg/kg	0.12	0.051	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00072	0.00023	1
Toluene	0.077		mg/kg	0.0014	0.00079	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00072	0.00028	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00040	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00072	0.00023	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00039	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00020	1
1,2-Dibromoethane	ND		mg/kg	0.00072	0.00042	1
2-Hexanone	ND		mg/kg	0.014	0.0017	1
Chlorobenzene	ND		mg/kg	0.00072	0.00018	1
Ethylbenzene	0.027		mg/kg	0.0014	0.00020	1
p/m-Xylene	0.16		mg/kg	0.0029	0.00081	1
o-Xylene	0.18		mg/kg	0.0014	0.00042	1
Xylenes, Total	0.34		mg/kg	0.0014	0.00042	1
Styrene	0.0050		mg/kg	0.0014	0.00028	1
Bromoform	ND		mg/kg	0.0058	0.00036	1
Isopropylbenzene	0.011		mg/kg	0.0014	0.00016	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00072	0.00024	1
1,3,5-Trimethylbenzene	0.19		mg/kg	0.0029	0.00028	1
1,2,4-Trimethylbenzene	0.20		mg/kg	0.0029	0.00048	1
1,3-Dichlorobenzene	ND		mg/kg	0.0029	0.00021	1
1,4-Dichlorobenzene	ND		mg/kg	0.0029	0.00025	1
1,2-Dichlorobenzene	ND		mg/kg	0.0029	0.00021	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0043	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0029	0.00039	1
Naphthalene	3.4	E	mg/kg	0.0058	0.00094	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0029	0.00047	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19 Date Collected: 03/17/22 00:00

Client ID: DUP-1 Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	0.741	J	mg/kg			1
Unknown	0.166	J	mg/kg			1
Indane	0.0309	NJ	mg/kg			1
Unknown Naphthalene	0.0270	J	mg/kg			1
Unknown	0.0287	J	mg/kg			1
Unknown	0.276	J	mg/kg			1
Unknown Aromatic	0.0270	J	mg/kg			1
Unknown Aromatic	0.0349	J	mg/kg			1
Unknown Naphthalene	0.0472	J	mg/kg			1
Acenaphthene	0.0519	NJ	mg/kg			1
Unknown Naphthalene	0.0514	J	mg/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	75		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-20
Client ID: FIELD BLANK
Sample Location: PHILA., PA

Date Collected: 03/17/22 11:35
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/24/22 08:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-20 Date Collected: 03/17/22 11:35

Client ID: FIELD BLANK Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-20 Date Collected: 03/17/22 11:35

Client ID: FIELD BLANK Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2213931
Project Number: 30108678.03C
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-20
Client ID: FIELD BLANK
Sample Location: PHILA., PA
Date Collected: 03/17/22 11:35
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 03/24/22 08:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	99		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-21
Client ID: TRIP BLANK
Sample Location: PHILA., PA

Date Collected: 03/17/22 00:00
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/24/22 07:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-21 Date Collected: 03/17/22 00:00

Client ID: TRIP BLANK Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-21 Date Collected: 03/17/22 00:00

Client ID: TRIP BLANK Date Received: 03/17/22

Sample Location: PHILA., PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2213931
Project Number: 30108678.03C
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-21
Client ID: TRIP BLANK
Sample Location: PHILA., PA
Date Collected: 03/17/22 00:00
Date Received: 03/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 03/24/22 07:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
4-Bromofluorobenzene	99		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 03/24/22 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 20-21 Batch: WG1619571-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
4-Bromofluorobenzene	99		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/24/22 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 20-21 Batch: WG1619572-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/24/22 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 20-21 Batch: WG1619572-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/24/22 07:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 20-21 Batch: WG1619572-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/25/22 08:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,09-13,15 Batch: WG1620536-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	0.0027	J	mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/25/22 08:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,09-13,15 Batch: WG1620536-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
Naphthalene	ND		mg/kg	0.0040	0.00065
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/25/22 08:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,09-13,15 Batch: WG1620536-5					
Tentatively Identified Compounds					
Total TIC Compounds	0.0236	J	mg/kg		
Unknown	0.00201	J	mg/kg		
Unknown	0.0185	J	mg/kg		
Unknown	0.00312	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/28/22 10:02
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-05 Batch: WG1620539-10					
Dichlorodifluoromethane	ND		mg/kg	0.50	0.046
Chloromethane	ND		mg/kg	0.20	0.047
Vinyl chloride	ND		mg/kg	0.050	0.017
Bromomethane	ND		mg/kg	0.10	0.029
Chloroethane	ND		mg/kg	0.10	0.023
Trichlorofluoromethane	ND		mg/kg	0.20	0.035
1,1-Dichloroethene	ND		mg/kg	0.050	0.012
Carbon disulfide	ND		mg/kg	0.50	0.23
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.20	0.035
Methylene chloride	ND		mg/kg	0.25	0.11
Acetone	ND		mg/kg	0.50	0.24
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.0068
Methyl Acetate	0.10	J	mg/kg	0.20	0.048
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
1,1-Dichloroethane	ND		mg/kg	0.050	0.0072
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.0088
1,2-Dichloroethene, Total	ND		mg/kg	0.050	0.0068
Cyclohexane	ND		mg/kg	0.50	0.027
Bromochloromethane	ND		mg/kg	0.10	0.010
Chloroform	ND		mg/kg	0.075	0.0070
Carbon tetrachloride	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.025	0.0084
2-Butanone	ND		mg/kg	0.50	0.11
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Methyl cyclohexane	ND		mg/kg	0.20	0.030
Trichloroethene	ND		mg/kg	0.025	0.0068
1,2-Dichloropropane	ND		mg/kg	0.050	0.0062
Bromodichloromethane	ND		mg/kg	0.025	0.0054

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/28/22 10:02
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-05 Batch: WG1620539-10					
1,4-Dioxane	ND		mg/kg	4.0	1.8
cis-1,3-Dichloropropene	ND		mg/kg	0.025	0.0079
Toluene	ND		mg/kg	0.050	0.027
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.064
Tetrachloroethene	ND		mg/kg	0.025	0.0098
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.014
1,3-Dichloropropene, Total	ND		mg/kg	0.025	0.0079
1,1,2-Trichloroethane	ND		mg/kg	0.050	0.013
Dibromochloromethane	ND		mg/kg	0.050	0.0070
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
2-Hexanone	ND		mg/kg	0.50	0.059
Chlorobenzene	ND		mg/kg	0.025	0.0064
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Styrene	ND		mg/kg	0.050	0.0098
Bromoform	ND		mg/kg	0.20	0.012
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.025	0.0083
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017
1,3-Dichlorobenzene	ND		mg/kg	0.10	0.0074
1,4-Dichlorobenzene	ND		mg/kg	0.10	0.0086
1,2-Dichlorobenzene	ND		mg/kg	0.10	0.0072
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.050
1,2,4-Trichlorobenzene	ND		mg/kg	0.10	0.014
Naphthalene	ND		mg/kg	0.20	0.032
1,2,3-Trichlorobenzene	ND		mg/kg	0.10	0.016

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/28/22 10:02
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-05 Batch: WG1620539-10					
Tentatively Identified Compounds					
Total TIC Compounds	0.602	J	mg/kg		
Unknown	0.124	J	mg/kg		
1-Hexanol, 2-ethyl-	0.204	NJ	mg/kg		
Cyclotrisiloxane, Hexamethyl-	0.156	NJ	mg/kg		
Unknown	0.118	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/25/22 08:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-04,06,16-17,19 Batch: WG1620539-5					
Dichlorodifluoromethane	ND		mg/kg	0.50	0.046
Chloromethane	ND		mg/kg	0.20	0.047
Vinyl chloride	ND		mg/kg	0.050	0.017
Bromomethane	ND		mg/kg	0.10	0.029
Chloroethane	ND		mg/kg	0.10	0.023
Trichlorofluoromethane	ND		mg/kg	0.20	0.035
1,1-Dichloroethene	ND		mg/kg	0.050	0.012
Carbon disulfide	ND		mg/kg	0.50	0.23
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.20	0.035
Methylene chloride	ND		mg/kg	0.25	0.11
Acetone	ND		mg/kg	0.50	0.24
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.0068
Methyl Acetate	0.14	J	mg/kg	0.20	0.048
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
1,1-Dichloroethane	ND		mg/kg	0.050	0.0072
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.0088
1,2-Dichloroethene, Total	ND		mg/kg	0.050	0.0068
Cyclohexane	ND		mg/kg	0.50	0.027
Bromochloromethane	ND		mg/kg	0.10	0.010
Chloroform	ND		mg/kg	0.075	0.0070
Carbon tetrachloride	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.025	0.0084
2-Butanone	ND		mg/kg	0.50	0.11
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Methyl cyclohexane	ND		mg/kg	0.20	0.030
Trichloroethene	ND		mg/kg	0.025	0.0068
1,2-Dichloropropane	ND		mg/kg	0.050	0.0062
Bromodichloromethane	ND		mg/kg	0.025	0.0054

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/25/22 08:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-04,06,16-17,19 Batch: WG1620539-5					
1,4-Dioxane	ND		mg/kg	4.0	1.8
cis-1,3-Dichloropropene	ND		mg/kg	0.025	0.0079
Toluene	ND		mg/kg	0.050	0.027
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.064
Tetrachloroethene	ND		mg/kg	0.025	0.0098
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.014
1,3-Dichloropropene, Total	ND		mg/kg	0.025	0.0079
1,1,2-Trichloroethane	ND		mg/kg	0.050	0.013
Dibromochloromethane	ND		mg/kg	0.050	0.0070
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
2-Hexanone	ND		mg/kg	0.50	0.059
Chlorobenzene	ND		mg/kg	0.025	0.0064
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Styrene	ND		mg/kg	0.050	0.0098
Bromoform	ND		mg/kg	0.20	0.012
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.025	0.0083
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017
1,3-Dichlorobenzene	ND		mg/kg	0.10	0.0074
1,4-Dichlorobenzene	ND		mg/kg	0.10	0.0086
1,2-Dichlorobenzene	ND		mg/kg	0.10	0.0072
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.050
1,2,4-Trichlorobenzene	ND		mg/kg	0.10	0.014
Naphthalene	ND		mg/kg	0.20	0.032
1,2,3-Trichlorobenzene	ND		mg/kg	0.10	0.016

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/25/22 08:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-04,06,16-17,19 Batch: WG1620539-5					
Tentatively Identified Compounds					
Total TIC Compounds	1.18	J	mg/kg		
Unknown	0.100	J	mg/kg		
1-Hexanol, 2-ethyl-	0.925	NJ	mg/kg		
Unknown	0.156	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/28/22 10:02
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07 Batch: WG1621094-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	0.0021	J	mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/28/22 10:02
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07 Batch: WG1621094-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
Naphthalene	ND		mg/kg	0.0040	0.00065
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/28/22 10:02
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07 Batch: WG1621094-5					
Tentatively Identified Compounds					
Total TIC Compounds	0.0120	J	mg/kg		
Unknown	0.00236	J	mg/kg		
1-Hexanol, 2-ethyl-	0.00409	NJ	mg/kg		
Cyclotrisiloxane, Hexamethyl-	0.00313	NJ	mg/kg		
Unknown	0.00247	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/29/22 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08,17,19 Batch: WG1621453-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/29/22 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08,17,19 Batch: WG1621453-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/29/22 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08,17,19 Batch: WG1621453-5					
Tentatively Identified Compounds					
Total TIC Compounds	0.00541	J	mg/kg		
Unknown	0.00244	J	mg/kg		
Cyclotrisiloxane, Hexamethyl-	0.00297	NJ	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/29/22 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 18 Batch: WG1621455-5					
Dichlorodifluoromethane	ND		mg/kg	0.50	0.046
Chloromethane	ND		mg/kg	0.20	0.047
Vinyl chloride	ND		mg/kg	0.050	0.017
Bromomethane	ND		mg/kg	0.10	0.029
Chloroethane	ND		mg/kg	0.10	0.023
Trichlorofluoromethane	ND		mg/kg	0.20	0.035
1,1-Dichloroethene	ND		mg/kg	0.050	0.012
Carbon disulfide	ND		mg/kg	0.50	0.23
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.20	0.035
Methylene chloride	ND		mg/kg	0.25	0.11
Acetone	ND		mg/kg	0.50	0.24
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.0068
Methyl Acetate	ND		mg/kg	0.20	0.048
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
1,1-Dichloroethane	ND		mg/kg	0.050	0.0072
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.0088
1,2-Dichloroethene, Total	ND		mg/kg	0.050	0.0068
Cyclohexane	ND		mg/kg	0.50	0.027
Bromochloromethane	ND		mg/kg	0.10	0.010
Chloroform	ND		mg/kg	0.075	0.0070
Carbon tetrachloride	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.025	0.0084
2-Butanone	ND		mg/kg	0.50	0.11
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Methyl cyclohexane	ND		mg/kg	0.20	0.030
Trichloroethene	ND		mg/kg	0.025	0.0068
1,2-Dichloropropane	ND		mg/kg	0.050	0.0062
Bromodichloromethane	ND		mg/kg	0.025	0.0054

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/29/22 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 18 Batch: WG1621455-5					
1,4-Dioxane	ND		mg/kg	4.0	1.8
cis-1,3-Dichloropropene	ND		mg/kg	0.025	0.0079
Toluene	ND		mg/kg	0.050	0.027
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.064
Tetrachloroethene	ND		mg/kg	0.025	0.0098
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.014
1,3-Dichloropropene, Total	ND		mg/kg	0.025	0.0079
1,1,2-Trichloroethane	ND		mg/kg	0.050	0.013
Dibromochloromethane	ND		mg/kg	0.050	0.0070
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
2-Hexanone	ND		mg/kg	0.50	0.059
Chlorobenzene	ND		mg/kg	0.025	0.0064
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Styrene	ND		mg/kg	0.050	0.0098
Bromoform	ND		mg/kg	0.20	0.012
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.025	0.0083
1,3-Dichlorobenzene	ND		mg/kg	0.10	0.0074
1,4-Dichlorobenzene	ND		mg/kg	0.10	0.0086
1,2-Dichlorobenzene	ND		mg/kg	0.10	0.0072
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.050
1,2,4-Trichlorobenzene	ND		mg/kg	0.10	0.014
1,2,3-Trichlorobenzene	ND		mg/kg	0.10	0.016

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/29/22 18:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s):				18 Batch:	WG1621455-5
Tentatively Identified Compounds					
Total TIC Compounds	0.270	J	mg/kg		
Cyclotrisiloxane, Hexamethyl-	0.148	NJ	mg/kg		
Unknown	0.122	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/22 10:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05,08 Batch: WG1621500-10					
Dichlorodifluoromethane	ND		mg/kg	0.50	0.046
Chloromethane	ND		mg/kg	0.20	0.047
Vinyl chloride	ND		mg/kg	0.050	0.017
Bromomethane	0.061	J	mg/kg	0.10	0.029
Chloroethane	ND		mg/kg	0.10	0.023
Trichlorofluoromethane	ND		mg/kg	0.20	0.035
1,1-Dichloroethene	ND		mg/kg	0.050	0.012
Carbon disulfide	ND		mg/kg	0.50	0.23
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.20	0.035
Methylene chloride	ND		mg/kg	0.25	0.11
Acetone	ND		mg/kg	0.50	0.24
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.0068
Methyl Acetate	ND		mg/kg	0.20	0.048
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
1,1-Dichloroethane	ND		mg/kg	0.050	0.0072
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.0088
1,2-Dichloroethene, Total	ND		mg/kg	0.050	0.0068
Cyclohexane	ND		mg/kg	0.50	0.027
Bromochloromethane	ND		mg/kg	0.10	0.010
Chloroform	ND		mg/kg	0.075	0.0070
Carbon tetrachloride	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.025	0.0084
2-Butanone	ND		mg/kg	0.50	0.11
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Methyl cyclohexane	ND		mg/kg	0.20	0.030
Trichloroethene	ND		mg/kg	0.025	0.0068
1,2-Dichloropropane	ND		mg/kg	0.050	0.0062
Bromodichloromethane	ND		mg/kg	0.025	0.0054

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/22 10:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05,08 Batch: WG1621500-10					
1,4-Dioxane	ND		mg/kg	4.0	1.8
cis-1,3-Dichloropropene	ND		mg/kg	0.025	0.0079
Toluene	ND		mg/kg	0.050	0.027
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.064
Tetrachloroethene	ND		mg/kg	0.025	0.0098
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.014
1,3-Dichloropropene, Total	ND		mg/kg	0.025	0.0079
1,1,2-Trichloroethane	ND		mg/kg	0.050	0.013
Dibromochloromethane	ND		mg/kg	0.050	0.0070
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
2-Hexanone	ND		mg/kg	0.50	0.059
Chlorobenzene	ND		mg/kg	0.025	0.0064
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Styrene	ND		mg/kg	0.050	0.0098
Bromoform	ND		mg/kg	0.20	0.012
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.025	0.0083
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017
1,3-Dichlorobenzene	ND		mg/kg	0.10	0.0074
1,4-Dichlorobenzene	ND		mg/kg	0.10	0.0086
1,2-Dichlorobenzene	ND		mg/kg	0.10	0.0072
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.050
1,2,4-Trichlorobenzene	ND		mg/kg	0.10	0.014
Naphthalene	ND		mg/kg	0.20	0.032
1,2,3-Trichlorobenzene	ND		mg/kg	0.10	0.016

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/22 10:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05,08 Batch: WG1621500-10					
Tentatively Identified Compounds					
Total TIC Compounds	0.130	J	mg/kg		
Unknown	0.130	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	103		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/22 08:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 16 Batch: WG1622016-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/22 08:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 16 Batch: WG1622016-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
Naphthalene	ND		mg/kg	0.0040	0.00065
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/22 08:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 16 Batch: WG1622016-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/22 08:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 14 Batch: WG1622018-5					
Dichlorodifluoromethane	ND		mg/kg	0.50	0.046
Chloromethane	ND		mg/kg	0.20	0.047
Vinyl chloride	ND		mg/kg	0.050	0.017
Bromomethane	ND		mg/kg	0.10	0.029
Chloroethane	ND		mg/kg	0.10	0.023
Trichlorofluoromethane	ND		mg/kg	0.20	0.035
1,1-Dichloroethene	ND		mg/kg	0.050	0.012
Carbon disulfide	ND		mg/kg	0.50	0.23
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.20	0.035
Methylene chloride	ND		mg/kg	0.25	0.11
Acetone	ND		mg/kg	0.50	0.24
trans-1,2-Dichloroethene	ND		mg/kg	0.075	0.0068
Methyl Acetate	ND		mg/kg	0.20	0.048
Methyl tert butyl ether	ND		mg/kg	0.10	0.010
1,1-Dichloroethane	ND		mg/kg	0.050	0.0072
cis-1,2-Dichloroethene	ND		mg/kg	0.050	0.0088
1,2-Dichloroethene, Total	ND		mg/kg	0.050	0.0068
Cyclohexane	ND		mg/kg	0.50	0.027
Bromochloromethane	ND		mg/kg	0.10	0.010
Chloroform	ND		mg/kg	0.075	0.0070
Carbon tetrachloride	ND		mg/kg	0.050	0.012
1,1,1-Trichloroethane	ND		mg/kg	0.025	0.0084
2-Butanone	ND		mg/kg	0.50	0.11
Benzene	ND		mg/kg	0.025	0.0083
1,2-Dichloroethane	ND		mg/kg	0.050	0.013
Methyl cyclohexane	ND		mg/kg	0.20	0.030
Trichloroethene	ND		mg/kg	0.025	0.0068
1,2-Dichloropropane	ND		mg/kg	0.050	0.0062
Bromodichloromethane	ND		mg/kg	0.025	0.0054

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/22 08:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 14 Batch: WG1622018-5					
1,4-Dioxane	ND		mg/kg	4.0	1.8
cis-1,3-Dichloropropene	ND		mg/kg	0.025	0.0079
Toluene	ND		mg/kg	0.050	0.027
4-Methyl-2-pentanone	ND		mg/kg	0.50	0.064
Tetrachloroethene	ND		mg/kg	0.025	0.0098
trans-1,3-Dichloropropene	ND		mg/kg	0.050	0.014
1,3-Dichloropropene, Total	ND		mg/kg	0.025	0.0079
1,1,2-Trichloroethane	ND		mg/kg	0.050	0.013
Dibromochloromethane	ND		mg/kg	0.050	0.0070
1,2-Dibromoethane	ND		mg/kg	0.025	0.015
2-Hexanone	ND		mg/kg	0.50	0.059
Chlorobenzene	ND		mg/kg	0.025	0.0064
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Styrene	ND		mg/kg	0.050	0.0098
Bromoform	ND		mg/kg	0.20	0.012
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.025	0.0083
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017
1,3-Dichlorobenzene	ND		mg/kg	0.10	0.0074
1,4-Dichlorobenzene	ND		mg/kg	0.10	0.0086
1,2-Dichlorobenzene	ND		mg/kg	0.10	0.0072
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.15	0.050
1,2,4-Trichlorobenzene	ND		mg/kg	0.10	0.014
Naphthalene	ND		mg/kg	0.20	0.032
1,2,3-Trichlorobenzene	ND		mg/kg	0.10	0.016

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/22 08:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 14 Batch: WG1622018-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/22 10:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 16 Batch: WG1622033-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	0.0012	J	mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2213931

Project Number: 30108678.03C **Report Date:** 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/22 10:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 16 Batch: WG1622033-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
Naphthalene	ND		mg/kg	0.0040	0.00065
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/30/22 10:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 16 Batch: WG1622033-5					
Tentatively Identified Compounds					
Total TIC Compounds	0.00261	J	mg/kg		
Unknown	0.00261	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 20-21 Batch: WG1619571-3 WG1619571-4								
1,4-Dioxane	120		130		70-130	8		25
1,1,2,2-Tetrachloroethane	95		103		70-130	8		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		105		70-130
4-Bromofluorobenzene	99		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-21 Batch: WG1619572-3 WG1619572-4								
Dichlorodifluoromethane	82		81		36-147	1		20
Chloromethane	88		88		64-130	0		20
Vinyl chloride	86		89		55-140	3		20
Bromomethane	99		100		39-139	1		20
Chloroethane	96		93		55-138	3		20
Trichlorofluoromethane	99		91		62-150	8		20
1,1-Dichloroethene	95		96		61-145	1		20
Carbon disulfide	96		95		51-130	1		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	99		96		70-130	3		20
Methylene chloride	95		95		70-130	0		20
Acetone	110		110		58-148	0		20
trans-1,2-Dichloroethene	96		96		70-130	0		20
Methyl Acetate	100		96		70-130	4		20
Methyl tert butyl ether	88		88		63-130	0		20
1,1-Dichloroethane	96		94		70-130	2		20
cis-1,2-Dichloroethene	95		95		70-130	0		20
Cyclohexane	93		95		70-130	2		20
Bromochloromethane	100		98		70-130	2		20
Chloroform	100		96		70-130	4		20
Carbon tetrachloride	95		93		63-132	2		20
1,1,1-Trichloroethane	95		92		67-130	3		20
2-Butanone	99		100		63-138	1		20
Benzene	100		99		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-21 Batch: WG1619572-3 WG1619572-4								
1,2-Dichloroethane	94		89		70-130	5		20
Methyl cyclohexane	96		96		70-130	0		20
Trichloroethene	98		95		70-130	3		20
1,2-Dichloropropane	94		93		70-130	1		20
Bromodichloromethane	94		91		67-130	3		20
cis-1,3-Dichloropropene	90		91		70-130	1		20
Toluene	100		99		70-130	1		20
Tetrachloroethene	97		96		70-130	1		20
4-Methyl-2-pentanone	86		91		59-130	6		20
trans-1,3-Dichloropropene	94		92		70-130	2		20
1,1,2-Trichloroethane	100		97		70-130	3		20
Dibromochloromethane	98		96		63-130	2		20
1,2-Dibromoethane	100		97		70-130	3		20
2-Hexanone	94		95		57-130	1		20
Chlorobenzene	99		97		75-130	2		20
Ethylbenzene	97		96		70-130	1		20
p/m-Xylene	95		90		70-130	5		20
o-Xylene	90		90		70-130	0		20
Styrene	95		90		70-130	5		20
Bromoform	91		89		54-136	2		20
Isopropylbenzene	98		99		70-130	1		20
1,3,5-Trimethylbenzene	100		99		64-130	1		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-21 Batch: WG1619572-3 WG1619572-4								
1,3-Dichlorobenzene	97		97		70-130	0		20
1,4-Dichlorobenzene	97		95		70-130	2		20
1,2-Dichlorobenzene	94		97		70-130	3		20
1,2-Dibromo-3-chloropropane	96		94		41-144	2		20
1,2,4-Trichlorobenzene	86		89		70-130	3		20
Naphthalene	81		83		70-130	2		20
1,2,3-Trichlorobenzene	92		90		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		91		70-130
Toluene-d8	105		103		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,09-13,15 Batch: WG1620536-3 WG1620536-4								
Dichlorodifluoromethane	101		82		30-146	21		30
Chloromethane	88		70		52-130	23		30
Vinyl chloride	91		72		67-130	23		30
Bromomethane	84		70		57-147	18		30
Chloroethane	80		72		50-151	11		30
Trichlorofluoromethane	102		82		70-139	22		30
1,1-Dichloroethene	102		86		65-135	17		30
Carbon disulfide	102		85		59-130	18		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	116		105		50-139	10		30
Methylene chloride	89		73		70-130	20		30
Acetone	99		79		54-140	22		30
trans-1,2-Dichloroethene	98		86		70-130	13		30
Methyl Acetate	94		76		51-146	21		30
Methyl tert butyl ether	107		84		66-130	24		30
1,1-Dichloroethane	96		82		70-130	16		30
cis-1,2-Dichloroethene	96		82		70-130	16		30
Cyclohexane	108		94		59-142	14		30
Bromochloromethane	100		85		70-130	16		30
Chloroform	96		83		70-130	15		30
Carbon tetrachloride	109		96		70-130	13		30
1,1,1-Trichloroethane	105		92		70-130	13		30
2-Butanone	93		74		70-130	23		30
Benzene	109		90		70-130	19		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,09-13,15 Batch: WG1620536-3 WG1620536-4								
1,2-Dichloroethane	95		80		70-130	17		30
Methyl cyclohexane	112		95		70-130	16		30
Trichloroethene	113		95		70-130	17		30
1,2-Dichloropropane	101		84		70-130	18		30
Bromodichloromethane	98		82		70-130	18		30
1,4-Dioxane	102		87		65-136	16		30
cis-1,3-Dichloropropene	109		90		70-130	19		30
Toluene	111		93		70-130	18		30
4-Methyl-2-pentanone	109		86		70-130	24		30
Tetrachloroethene	128		108		70-130	17		30
trans-1,3-Dichloropropene	119		95		70-130	22		30
1,1,2-Trichloroethane	110		89		70-130	21		30
Dibromochloromethane	117		97		70-130	19		30
1,2-Dibromoethane	118		96		70-130	21		30
2-Hexanone	104		84		70-130	21		30
Chlorobenzene	110		93		70-130	17		30
Ethylbenzene	111		95		70-130	16		30
p/m-Xylene	114		96		70-130	17		30
o-Xylene	111		95		70-130	16		30
Styrene	113		96		70-130	16		30
Bromoform	114		91		70-130	22		30
Isopropylbenzene	117		98		70-130	18		30
1,1,2,2-Tetrachloroethane	111		90		70-130	21		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,09-13,15 Batch: WG1620536-3 WG1620536-4								
1,3,5-Trimethylbenzene	116		97		70-130	18		30
1,2,4-Trimethylbenzene	114		95		70-130	18		30
1,3-Dichlorobenzene	112		94		70-130	17		30
1,4-Dichlorobenzene	110		92		70-130	18		30
1,2-Dichlorobenzene	110		92		70-130	18		30
1,2-Dibromo-3-chloropropane	108		90		68-130	18		30
1,2,4-Trichlorobenzene	116		96		70-130	19		30
Naphthalene	110		92		70-130	18		30
1,2,3-Trichlorobenzene	114		95		70-130	18		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		90		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	91		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-04,06,16-17,19 Batch: WG1620539-3 WG1620539-4								
Dichlorodifluoromethane	101		82		30-146	21		30
Chloromethane	88		70		52-130	23		30
Vinyl chloride	91		72		67-130	23		30
Bromomethane	84		70		57-147	18		30
Chloroethane	80		72		50-151	11		30
Trichlorofluoromethane	102		82		70-139	22		30
1,1-Dichloroethene	102		86		65-135	17		30
Carbon disulfide	102		85		59-130	18		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	116		105		50-139	10		30
Methylene chloride	89		73		70-130	20		30
Acetone	99		79		54-140	22		30
trans-1,2-Dichloroethene	98		86		70-130	13		30
Methyl Acetate	94		76		51-146	21		30
Methyl tert butyl ether	107		84		66-130	24		30
1,1-Dichloroethane	96		82		70-130	16		30
cis-1,2-Dichloroethene	96		82		70-130	16		30
Cyclohexane	108		94		59-142	14		30
Bromochloromethane	100		85		70-130	16		30
Chloroform	96		83		70-130	15		30
Carbon tetrachloride	109		96		70-130	13		30
1,1,1-Trichloroethane	105		92		70-130	13		30
2-Butanone	93		74		70-130	23		30
Benzene	109		90		70-130	19		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-04,06,16-17,19 Batch: WG1620539-3 WG1620539-4								
1,2-Dichloroethane	95		80		70-130	17		30
Methyl cyclohexane	112		95		70-130	16		30
Trichloroethene	113		95		70-130	17		30
1,2-Dichloropropane	101		84		70-130	18		30
Bromodichloromethane	98		82		70-130	18		30
1,4-Dioxane	102		87		65-136	16		30
cis-1,3-Dichloropropene	109		90		70-130	19		30
Toluene	111		93		70-130	18		30
4-Methyl-2-pentanone	109		86		70-130	24		30
Tetrachloroethene	128		108		70-130	17		30
trans-1,3-Dichloropropene	119		95		70-130	22		30
1,1,2-Trichloroethane	110		89		70-130	21		30
Dibromochloromethane	117		97		70-130	19		30
1,2-Dibromoethane	118		96		70-130	21		30
2-Hexanone	104		84		70-130	21		30
Chlorobenzene	110		93		70-130	17		30
Ethylbenzene	111		95		70-130	16		30
p/m-Xylene	114		96		70-130	17		30
o-Xylene	111		95		70-130	16		30
Styrene	113		96		70-130	16		30
Bromoform	114		91		70-130	22		30
Isopropylbenzene	117		98		70-130	18		30
1,1,2,2-Tetrachloroethane	111		90		70-130	21		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-04,06,16-17,19 Batch: WG1620539-3 WG1620539-4								
1,3,5-Trimethylbenzene	116		97		70-130	18		30
1,2,4-Trimethylbenzene	114		95		70-130	18		30
1,3-Dichlorobenzene	112		94		70-130	17		30
1,4-Dichlorobenzene	110		92		70-130	18		30
1,2-Dichlorobenzene	110		92		70-130	18		30
1,2-Dibromo-3-chloropropane	108		90		68-130	18		30
1,2,4-Trichlorobenzene	116		96		70-130	19		30
Naphthalene	110		92		70-130	18		30
1,2,3-Trichlorobenzene	114		95		70-130	18		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		90		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	91		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-05 Batch: WG1620539-8 WG1620539-9								
Dichlorodifluoromethane	97		95		30-146	2		30
Chloromethane	81		78		52-130	4		30
Vinyl chloride	82		81		67-130	1		30
Bromomethane	75		74		57-147	1		30
Chloroethane	76		72		50-151	5		30
Trichlorofluoromethane	92		94		70-139	2		30
1,1-Dichloroethene	101		95		65-135	6		30
Carbon disulfide	99		93		59-130	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	119		116		50-139	3		30
Methylene chloride	84		81		70-130	4		30
Acetone	97		94		54-140	3		30
trans-1,2-Dichloroethene	97		90		70-130	7		30
Methyl Acetate	88		89		51-146	1		30
Methyl tert butyl ether	96		102		66-130	6		30
1,1-Dichloroethane	94		89		70-130	5		30
cis-1,2-Dichloroethene	93		87		70-130	7		30
Cyclohexane	109		103		59-142	6		30
Bromochloromethane	96		92		70-130	4		30
Chloroform	92		89		70-130	3		30
Carbon tetrachloride	109		103		70-130	6		30
1,1,1-Trichloroethane	106		99		70-130	7		30
2-Butanone	87		90		70-130	3		30
Benzene	102		98		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-05 Batch: WG1620539-8 WG1620539-9								
1,2-Dichloroethane	90		89		70-130	1		30
Methyl cyclohexane	112		107		70-130	5		30
Trichloroethene	109		102		70-130	7		30
1,2-Dichloropropane	94		93		70-130	1		30
Bromodichloromethane	95		92		70-130	3		30
1,4-Dioxane	104		101		65-136	3		30
cis-1,3-Dichloropropene	103		100		70-130	3		30
Toluene	105		98		70-130	7		30
4-Methyl-2-pentanone	100		107		70-130	7		30
Tetrachloroethene	122		115		70-130	6		30
trans-1,3-Dichloropropene	107		107		70-130	0		30
1,1,2-Trichloroethane	100		103		70-130	3		30
Dibromochloromethane	110		111		70-130	1		30
1,2-Dibromoethane	109		111		70-130	2		30
2-Hexanone	99		105		70-130	6		30
Chlorobenzene	104		97		70-130	7		30
Ethylbenzene	105		98		70-130	7		30
p/m-Xylene	108		100		70-130	8		30
o-Xylene	106		98		70-130	8		30
Styrene	108		100		70-130	8		30
Bromoform	108		112		70-130	4		30
Isopropylbenzene	111		104		70-130	7		30
1,1,2,2-Tetrachloroethane	100		106		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-05 Batch: WG1620539-8 WG1620539-9								
1,3,5-Trimethylbenzene	108		102		70-130	6		30
1,2,4-Trimethylbenzene	106		100		70-130	6		30
1,3-Dichlorobenzene	104		98		70-130	6		30
1,4-Dichlorobenzene	102		96		70-130	6		30
1,2-Dichlorobenzene	103		98		70-130	5		30
1,2-Dibromo-3-chloropropane	104		108		68-130	4		30
1,2,4-Trichlorobenzene	106		100		70-130	6		30
Naphthalene	104		104		70-130	0		30
1,2,3-Trichlorobenzene	105		101		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		92		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	93		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07 Batch: WG1621094-3 WG1621094-4								
Dichlorodifluoromethane	97		95		30-146	2		30
Chloromethane	81		78		52-130	4		30
Vinyl chloride	82		81		67-130	1		30
Bromomethane	75		74		57-147	1		30
Chloroethane	76		72		50-151	5		30
Trichlorofluoromethane	92		94		70-139	2		30
1,1-Dichloroethene	101		95		65-135	6		30
Carbon disulfide	99		93		59-130	6		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	119		116		50-139	3		30
Methylene chloride	84		81		70-130	4		30
Acetone	97		94		54-140	3		30
trans-1,2-Dichloroethene	97		90		70-130	7		30
Methyl Acetate	88		89		51-146	1		30
Methyl tert butyl ether	96		102		66-130	6		30
1,1-Dichloroethane	94		89		70-130	5		30
cis-1,2-Dichloroethene	93		87		70-130	7		30
Cyclohexane	109		103		59-142	6		30
Bromochloromethane	96		92		70-130	4		30
Chloroform	92		89		70-130	3		30
Carbon tetrachloride	109		103		70-130	6		30
1,1,1-Trichloroethane	106		99		70-130	7		30
2-Butanone	87		90		70-130	3		30
Benzene	102		98		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07 Batch: WG1621094-3 WG1621094-4								
1,2-Dichloroethane	90		89		70-130	1		30
Methyl cyclohexane	112		107		70-130	5		30
Trichloroethene	109		102		70-130	7		30
1,2-Dichloropropane	94		93		70-130	1		30
Bromodichloromethane	95		92		70-130	3		30
1,4-Dioxane	104		101		65-136	3		30
cis-1,3-Dichloropropene	103		100		70-130	3		30
Toluene	105		98		70-130	7		30
4-Methyl-2-pentanone	100		107		70-130	7		30
Tetrachloroethene	122		115		70-130	6		30
trans-1,3-Dichloropropene	107		107		70-130	0		30
1,1,2-Trichloroethane	100		103		70-130	3		30
Dibromochloromethane	110		111		70-130	1		30
1,2-Dibromoethane	109		111		70-130	2		30
2-Hexanone	99		105		70-130	6		30
Chlorobenzene	104		97		70-130	7		30
Ethylbenzene	105		98		70-130	7		30
p/m-Xylene	108		100		70-130	8		30
o-Xylene	106		98		70-130	8		30
Styrene	108		100		70-130	8		30
Bromoform	108		112		70-130	4		30
Isopropylbenzene	111		104		70-130	7		30
1,1,2,2-Tetrachloroethane	100		106		70-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07 Batch: WG1621094-3 WG1621094-4								
1,3,5-Trimethylbenzene	108		102		70-130	6		30
1,2,4-Trimethylbenzene	106		100		70-130	6		30
1,3-Dichlorobenzene	104		98		70-130	6		30
1,4-Dichlorobenzene	102		96		70-130	6		30
1,2-Dichlorobenzene	103		98		70-130	5		30
1,2-Dibromo-3-chloropropane	104		108		68-130	4		30
1,2,4-Trichlorobenzene	106		100		70-130	6		30
Naphthalene	104		104		70-130	0		30
1,2,3-Trichlorobenzene	105		101		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		92		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	93		92		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,17,19 Batch: WG1621453-3 WG1621453-4								
Dichlorodifluoromethane	128		128		30-146	0		30
Chloromethane	99		97		52-130	2		30
Vinyl chloride	95		95		67-130	0		30
Bromomethane	84		86		57-147	2		30
Chloroethane	82		87		50-151	6		30
Trichlorofluoromethane	95		104		70-139	9		30
1,1-Dichloroethene	106		114		65-135	7		30
Carbon disulfide	108		113		59-130	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	125		**140**	Q	50-139	11		30
Methylene chloride	88		95		70-130	8		30
Acetone	84		114		54-140	30		30
trans-1,2-Dichloroethene	101		114		70-130	12		30
Methyl Acetate	82		100		51-146	20		30
Methyl tert butyl ether	96		113		66-130	16		30
1,1-Dichloroethane	95		106		70-130	11		30
cis-1,2-Dichloroethene	94		108		70-130	14		30
Cyclohexane	119		127		59-142	7		30
Bromochloromethane	97		110		70-130	13		30
Chloroform	93		108		70-130	15		30
Carbon tetrachloride	126		**142**	Q	70-130	12		30
1,1,1-Trichloroethane	107		122		70-130	13		30
2-Butanone	81		98		70-130	19		30
Benzene	107		117		70-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,17,19 Batch: WG1621453-3 WG1621453-4								
1,2-Dichloroethane	89		105		70-130	16		30
Methyl cyclohexane	122		129		70-130	6		30
Trichloroethene	113		126		70-130	11		30
1,2-Dichloropropane	97		110		70-130	13		30
Bromodichloromethane	94		110		70-130	16		30
1,4-Dioxane	86		117		65-136	**31**	Q	30
cis-1,3-Dichloropropene	104		119		70-130	13		30
Toluene	109		117		70-130	7		30
4-Methyl-2-pentanone	95		115		70-130	19		30
Tetrachloroethene	**132**	Q	**141**	Q	70-130	7		30
trans-1,3-Dichloropropene	112		127		70-130	13		30
1,1,2-Trichloroethane	101		117		70-130	15		30
Dibromochloromethane	110		129		70-130	16		30
1,2-Dibromoethane	110		126		70-130	14		30
2-Hexanone	90		112		70-130	22		30
Chlorobenzene	108		118		70-130	9		30
Ethylbenzene	111		120		70-130	8		30
p/m-Xylene	113		122		70-130	8		30
o-Xylene	111		120		70-130	8		30
Styrene	110		123		70-130	11		30
Bromoform	111		125		70-130	12		30
Isopropylbenzene	126		126		70-130	0		30
1,1,2,2-Tetrachloroethane	106		118		70-130	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,17,19 Batch: WG1621453-3 WG1621453-4								
1,3,5-Trimethylbenzene	124		123		70-130	1		30
1,2,4-Trimethylbenzene	122		121		70-130	1		30
1,3-Dichlorobenzene	117		120		70-130	3		30
1,4-Dichlorobenzene	116		117		70-130	1		30
1,2-Dichlorobenzene	114		119		70-130	4		30
1,2-Dibromo-3-chloropropane	104		123		68-130	17		30
1,2,4-Trichlorobenzene	124		125		70-130	1		30
Naphthalene	113		124		70-130	9		30
1,2,3-Trichlorobenzene	119		124		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	85		90		70-130
Toluene-d8	103		100		70-130
4-Bromofluorobenzene	107		102		70-130
Dibromofluoromethane	91		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 18 Batch: WG1621455-3 WG1621455-4								
Dichlorodifluoromethane	128		128		30-146	0		30
Chloromethane	99		97		52-130	2		30
Vinyl chloride	95		95		67-130	0		30
Bromomethane	84		86		57-147	2		30
Chloroethane	82		87		50-151	6		30
Trichlorofluoromethane	95		104		70-139	9		30
1,1-Dichloroethene	106		114		65-135	7		30
Carbon disulfide	108		113		59-130	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	125		**140**	Q	50-139	11		30
Methylene chloride	88		95		70-130	8		30
Acetone	84		114		54-140	30		30
trans-1,2-Dichloroethene	101		114		70-130	12		30
Methyl Acetate	82		100		51-146	20		30
Methyl tert butyl ether	96		113		66-130	16		30
1,1-Dichloroethane	95		106		70-130	11		30
cis-1,2-Dichloroethene	94		108		70-130	14		30
Cyclohexane	119		127		59-142	7		30
Bromochloromethane	97		110		70-130	13		30
Chloroform	93		108		70-130	15		30
Carbon tetrachloride	126		**142**	Q	70-130	12		30
1,1,1-Trichloroethane	107		122		70-130	13		30
2-Butanone	81		98		70-130	19		30
Benzene	107		117		70-130	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 18 Batch: WG1621455-3 WG1621455-4								
1,2-Dichloroethane	89		105		70-130	16		30
Methyl cyclohexane	122		129		70-130	6		30
Trichloroethene	113		126		70-130	11		30
1,2-Dichloropropane	97		110		70-130	13		30
Bromodichloromethane	94		110		70-130	16		30
1,4-Dioxane	86		117		65-136	**31**	Q	30
cis-1,3-Dichloropropene	104		119		70-130	13		30
Toluene	109		117		70-130	7		30
4-Methyl-2-pentanone	95		115		70-130	19		30
Tetrachloroethene	**132**	Q	**141**	Q	70-130	7		30
trans-1,3-Dichloropropene	112		127		70-130	13		30
1,1,2-Trichloroethane	101		117		70-130	15		30
Dibromochloromethane	110		129		70-130	16		30
1,2-Dibromoethane	110		126		70-130	14		30
2-Hexanone	90		112		70-130	22		30
Chlorobenzene	108		118		70-130	9		30
Ethylbenzene	111		120		70-130	8		30
p/m-Xylene	113		122		70-130	8		30
o-Xylene	111		120		70-130	8		30
Styrene	110		123		70-130	11		30
Bromoform	111		125		70-130	12		30
Isopropylbenzene	126		126		70-130	0		30
1,1,2,2-Tetrachloroethane	106		118		70-130	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 18 Batch: WG1621455-3 WG1621455-4								
1,3,5-Trimethylbenzene	124		123		70-130	1		30
1,2,4-Trimethylbenzene	122		121		70-130	1		30
1,3-Dichlorobenzene	117		120		70-130	3		30
1,4-Dichlorobenzene	116		117		70-130	1		30
1,2-Dichlorobenzene	114		119		70-130	4		30
1,2-Dibromo-3-chloropropane	104		123		68-130	17		30
1,2,4-Trichlorobenzene	124		125		70-130	1		30
Naphthalene	113		124		70-130	9		30
1,2,3-Trichlorobenzene	119		124		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	85		90		70-130
Toluene-d8	103		100		70-130
4-Bromofluorobenzene	107		102		70-130
Dibromofluoromethane	91		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05,08 Batch: WG1621500-8 WG1621500-9								
Dichlorodifluoromethane	58		59		30-146	2		30
Chloromethane	80		83		52-130	4		30
Vinyl chloride	83		86		67-130	4		30
Bromomethane	99		103		57-147	4		30
Chloroethane	88		91		50-151	3		30
Trichlorofluoromethane	91		94		70-139	3		30
1,1-Dichloroethene	79		84		65-135	6		30
Carbon disulfide	66		68		59-130	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		97		50-139	3		30
Methylene chloride	79		83		70-130	5		30
Acetone	88		95		54-140	8		30
trans-1,2-Dichloroethene	81		87		70-130	7		30
Methyl Acetate	94		101		51-146	7		30
Methyl tert butyl ether	84		88		66-130	5		30
1,1-Dichloroethane	93		97		70-130	4		30
cis-1,2-Dichloroethene	81		85		70-130	5		30
Cyclohexane	109		114		59-142	4		30
Bromochloromethane	86		90		70-130	5		30
Chloroform	81		85		70-130	5		30
Carbon tetrachloride	92		97		70-130	5		30
1,1,1-Trichloroethane	84		88		70-130	5		30
2-Butanone	94		103		70-130	9		30
Benzene	82		85		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05,08 Batch: WG1621500-8 WG1621500-9								
1,2-Dichloroethane	96		102		70-130	6		30
Methyl cyclohexane	86		90		70-130	5		30
Trichloroethene	83		88		70-130	6		30
1,2-Dichloropropane	98		104		70-130	6		30
Bromodichloromethane	81		86		70-130	6		30
1,4-Dioxane	94		102		65-136	8		30
cis-1,3-Dichloropropene	88		93		70-130	6		30
Toluene	81		85		70-130	5		30
4-Methyl-2-pentanone	107		115		70-130	7		30
Tetrachloroethene	88		90		70-130	2		30
trans-1,3-Dichloropropene	85		90		70-130	6		30
1,1,2-Trichloroethane	78		81		70-130	4		30
Dibromochloromethane	86		91		70-130	6		30
1,2-Dibromoethane	90		94		70-130	4		30
2-Hexanone	92		98		70-130	6		30
Chlorobenzene	86		89		70-130	3		30
Ethylbenzene	83		86		70-130	4		30
p/m-Xylene	88		92		70-130	4		30
o-Xylene	87		90		70-130	3		30
Styrene	84		88		70-130	5		30
Bromoform	80		83		70-130	4		30
Isopropylbenzene	93		97		70-130	4		30
1,1,2,2-Tetrachloroethane	81		86		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05,08 Batch: WG1621500-8 WG1621500-9								
1,3,5-Trimethylbenzene	91		94		70-130	3		30
1,2,4-Trimethylbenzene	92		95		70-130	3		30
1,3-Dichlorobenzene	91		94		70-130	3		30
1,4-Dichlorobenzene	89		94		70-130	5		30
1,2-Dichlorobenzene	89		93		70-130	4		30
1,2-Dibromo-3-chloropropane	81		88		68-130	8		30
1,2,4-Trichlorobenzene	87		93		70-130	7		30
Naphthalene	84		92		70-130	9		30
1,2,3-Trichlorobenzene	82		88		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	98		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 16 Batch: WG1622016-3 WG1622016-4								
Dichlorodifluoromethane	94		90		30-146	4		30
Chloromethane	125		120		52-130	4		30
Vinyl chloride	116		111		67-130	4		30
Bromomethane	117		112		57-147	4		30
Chloroethane	112		108		50-151	4		30
Trichlorofluoromethane	110		106		70-139	4		30
1,1-Dichloroethene	107		104		65-135	3		30
Carbon disulfide	106		102		59-130	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		107		50-139	3		30
Methylene chloride	98		95		70-130	3		30
Acetone	114		113		54-140	1		30
trans-1,2-Dichloroethene	108		104		70-130	4		30
Methyl Acetate	117		116		51-146	1		30
Methyl tert butyl ether	107		105		66-130	2		30
1,1-Dichloroethane	114		111		70-130	3		30
cis-1,2-Dichloroethene	104		101		70-130	3		30
Cyclohexane	124		122		59-142	2		30
Bromochloromethane	99		98		70-130	1		30
Chloroform	106		104		70-130	2		30
Carbon tetrachloride	109		106		70-130	3		30
1,1,1-Trichloroethane	114		109		70-130	4		30
2-Butanone	115		114		70-130	1		30
Benzene	111		108		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 16 Batch: WG1622016-3 WG1622016-4								
1,2-Dichloroethane	109		107		70-130	2		30
Methyl cyclohexane	112		110		70-130	2		30
Trichloroethene	110		107		70-130	3		30
1,2-Dichloropropane	113		110		70-130	3		30
Bromodichloromethane	110		106		70-130	4		30
1,4-Dioxane	94		97		65-136	3		30
cis-1,3-Dichloropropene	112		109		70-130	3		30
Toluene	112		108		70-130	4		30
4-Methyl-2-pentanone	112		111		70-130	1		30
Tetrachloroethene	111		108		70-130	3		30
trans-1,3-Dichloropropene	115		113		70-130	2		30
1,1,2-Trichloroethane	108		106		70-130	2		30
Dibromochloromethane	110		107		70-130	3		30
1,2-Dibromoethane	109		107		70-130	2		30
2-Hexanone	120		120		70-130	0		30
Chlorobenzene	112		109		70-130	3		30
Ethylbenzene	114		112		70-130	2		30
p/m-Xylene	115		112		70-130	3		30
o-Xylene	114		113		70-130	1		30
Styrene	115		112		70-130	3		30
Bromoform	102		100		70-130	2		30
Isopropylbenzene	118		115		70-130	3		30
1,1,2,2-Tetrachloroethane	112		110		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 16 Batch: WG1622016-3 WG1622016-4								
1,3,5-Trimethylbenzene	117		113		70-130	3		30
1,2,4-Trimethylbenzene	116		113		70-130	3		30
1,3-Dichlorobenzene	112		110		70-130	2		30
1,4-Dichlorobenzene	112		108		70-130	4		30
1,2-Dichlorobenzene	109		108		70-130	1		30
1,2-Dibromo-3-chloropropane	97		98		68-130	1		30
1,2,4-Trichlorobenzene	110		109		70-130	1		30
Naphthalene	106		106		70-130	0		30
1,2,3-Trichlorobenzene	106		106		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	93		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 14 Batch: WG1622018-3 WG1622018-4								
Dichlorodifluoromethane	94		90		30-146	4		30
Chloromethane	125		120		52-130	4		30
Vinyl chloride	116		111		67-130	4		30
Bromomethane	117		112		57-147	4		30
Chloroethane	112		108		50-151	4		30
Trichlorofluoromethane	110		106		70-139	4		30
1,1-Dichloroethene	107		104		65-135	3		30
Carbon disulfide	106		102		59-130	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		107		50-139	3		30
Methylene chloride	98		95		70-130	3		30
Acetone	114		113		54-140	1		30
trans-1,2-Dichloroethene	108		104		70-130	4		30
Methyl Acetate	117		116		51-146	1		30
Methyl tert butyl ether	107		105		66-130	2		30
1,1-Dichloroethane	114		111		70-130	3		30
cis-1,2-Dichloroethene	104		101		70-130	3		30
Cyclohexane	124		122		59-142	2		30
Bromochloromethane	99		98		70-130	1		30
Chloroform	106		104		70-130	2		30
Carbon tetrachloride	109		106		70-130	3		30
1,1,1-Trichloroethane	114		109		70-130	4		30
2-Butanone	115		114		70-130	1		30
Benzene	111		108		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 14 Batch: WG1622018-3 WG1622018-4								
1,2-Dichloroethane	109		107		70-130	2		30
Methyl cyclohexane	112		110		70-130	2		30
Trichloroethene	110		107		70-130	3		30
1,2-Dichloropropane	113		110		70-130	3		30
Bromodichloromethane	110		106		70-130	4		30
1,4-Dioxane	94		97		65-136	3		30
cis-1,3-Dichloropropene	112		109		70-130	3		30
Toluene	112		108		70-130	4		30
4-Methyl-2-pentanone	112		111		70-130	1		30
Tetrachloroethene	111		108		70-130	3		30
trans-1,3-Dichloropropene	115		113		70-130	2		30
1,1,2-Trichloroethane	108		106		70-130	2		30
Dibromochloromethane	110		107		70-130	3		30
1,2-Dibromoethane	109		107		70-130	2		30
2-Hexanone	120		120		70-130	0		30
Chlorobenzene	112		109		70-130	3		30
Ethylbenzene	114		112		70-130	2		30
p/m-Xylene	115		112		70-130	3		30
o-Xylene	114		113		70-130	1		30
Styrene	115		112		70-130	3		30
Bromoform	102		100		70-130	2		30
Isopropylbenzene	118		115		70-130	3		30
1,1,2,2-Tetrachloroethane	112		110		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 14 Batch: WG1622018-3 WG1622018-4								
1,3,5-Trimethylbenzene	117		113		70-130	3		30
1,2,4-Trimethylbenzene	116		113		70-130	3		30
1,3-Dichlorobenzene	112		110		70-130	2		30
1,4-Dichlorobenzene	112		108		70-130	4		30
1,2-Dichlorobenzene	109		108		70-130	1		30
1,2-Dibromo-3-chloropropane	97		98		68-130	1		30
1,2,4-Trichlorobenzene	110		109		70-130	1		30
Naphthalene	106		106		70-130	0		30
1,2,3-Trichlorobenzene	106		106		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	93		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 16 Batch: WG1622033-3 WG1622033-4								
Dichlorodifluoromethane	58		59		30-146	2		30
Chloromethane	80		83		52-130	4		30
Vinyl chloride	83		86		67-130	4		30
Bromomethane	99		103		57-147	4		30
Chloroethane	88		91		50-151	3		30
Trichlorofluoromethane	91		94		70-139	3		30
1,1-Dichloroethene	79		84		65-135	6		30
Carbon disulfide	66		68		59-130	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		97		50-139	3		30
Methylene chloride	79		83		70-130	5		30
Acetone	88		95		54-140	8		30
trans-1,2-Dichloroethene	81		87		70-130	7		30
Methyl Acetate	94		101		51-146	7		30
Methyl tert butyl ether	84		88		66-130	5		30
1,1-Dichloroethane	93		97		70-130	4		30
cis-1,2-Dichloroethene	81		85		70-130	5		30
Cyclohexane	109		114		59-142	4		30
Bromochloromethane	86		90		70-130	5		30
Chloroform	81		85		70-130	5		30
Carbon tetrachloride	92		97		70-130	5		30
1,1,1-Trichloroethane	84		88		70-130	5		30
2-Butanone	94		103		70-130	9		30
Benzene	82		85		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 16 Batch: WG1622033-3 WG1622033-4								
1,2-Dichloroethane	96		102		70-130	6		30
Methyl cyclohexane	86		90		70-130	5		30
Trichloroethene	83		88		70-130	6		30
1,2-Dichloropropane	98		104		70-130	6		30
Bromodichloromethane	81		86		70-130	6		30
1,4-Dioxane	94		102		65-136	8		30
cis-1,3-Dichloropropene	88		93		70-130	6		30
Toluene	81		85		70-130	5		30
4-Methyl-2-pentanone	107		115		70-130	7		30
Tetrachloroethene	88		90		70-130	2		30
trans-1,3-Dichloropropene	85		90		70-130	6		30
1,1,2-Trichloroethane	78		81		70-130	4		30
Dibromochloromethane	86		91		70-130	6		30
1,2-Dibromoethane	90		94		70-130	4		30
2-Hexanone	92		98		70-130	6		30
Chlorobenzene	86		89		70-130	3		30
Ethylbenzene	83		86		70-130	4		30
p/m-Xylene	88		92		70-130	4		30
o-Xylene	87		90		70-130	3		30
Styrene	84		88		70-130	5		30
Bromoform	80		83		70-130	4		30
Isopropylbenzene	93		97		70-130	4		30
1,1,2,2-Tetrachloroethane	81		86		70-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 16 Batch: WG1622033-3 WG1622033-4								
1,3,5-Trimethylbenzene	91		94		70-130	3		30
1,2,4-Trimethylbenzene	92		95		70-130	3		30
1,3-Dichlorobenzene	91		94		70-130	3		30
1,4-Dichlorobenzene	89		94		70-130	5		30
1,2-Dichlorobenzene	89		93		70-130	4		30
1,2-Dibromo-3-chloropropane	81		88		68-130	8		30
1,2,4-Trichlorobenzene	87		93		70-130	7		30
Naphthalene	84		92		70-130	9		30
1,2,3-Trichlorobenzene	82		88		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	97		99		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-01
Client ID: MW-8 (5.5-6)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/16/22 12:10
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-02
Client ID: SB-201 (8.5-9)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/16/22 14:05
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.4		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-03
Client ID: SB-202 (8.5-9)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/16/22 14:20
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.9		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-04
Client ID: SB-203 (8.5-9)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/16/22 14:30
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	59.5		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-05
Client ID: SB-204 (8.5-9)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/16/22 14:35
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.7		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
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SAMPLE RESULTS

Lab ID: L2213931-06
Client ID: SB-205 (3.5-4)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/16/22 14:45
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
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Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-07
Client ID: SB-206 (2.5-3)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 08:35
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	57.9		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-08
Client ID: SB-207 (4-4.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 08:50
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.4		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-09
Client ID: SB-208 (4-4.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/22 09:00
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-10
Client ID: SB-209 (3.5-4)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 09:25
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	58.0		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
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SAMPLE RESULTS

Lab ID: L2213931-11
Client ID: SB-210 (4-4.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 09:35
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
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SAMPLE RESULTS

Lab ID: L2213931-12
Client ID: SB-211 (3.5-4)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 09:40
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.7		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-13
Client ID: SB-212 (4.5-5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 10:00
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.8		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-14
Client ID: SB-213 (4-4.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/22 10:10
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.5		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-15
Client ID: SB-214 (4-4.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/22 10:20
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
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Lab Number: L2213931
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SAMPLE RESULTS

Lab ID: L2213931-16
Client ID: SB-215 (4.5-5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 10:30
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.1		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-17
Client ID: SB-216 (3.5-4)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 10:40
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.3		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-18
Client ID: SB-217 (8.5-9)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/22 11:25
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.0		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2213931
Report Date: 04/12/22

SAMPLE RESULTS

Lab ID: L2213931-19
Client ID: DUP-1
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/22 00:00
Date Received: 03/17/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.1		%	0.100	NA	1	-	03/18/22 11:55	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2213931

Report Date: 04/12/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-19 QC Batch ID: WG1617107-1 QC Sample: L2213931-01 Client ID: MW-8 (5.5-6)						
Solids, Total	92.0	92.9	%	1		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213931-01A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-01B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-01C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-01D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-01X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-01Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-01Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-02A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-02B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-02C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-02D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-02X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-02Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-02Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-03A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-03B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-03C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-03D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-03X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-03Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-03Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-04A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-04B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213931-04C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-04D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-04X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-04Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-04Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-05A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-05B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-05C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-05D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-05X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-05Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-05Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-06A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-06B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-06C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-06D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-06X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-06Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-06Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-07A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-07B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-07C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-07D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-07X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-07Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-07Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-08A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-08B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213931-08C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-08D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-08X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-08Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-08Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-09A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-09B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-09C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-09D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-09X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-09Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-09Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-10A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-10B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-10C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-10D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-10X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-10Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-10Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-11A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-11B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-11C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-11D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-11X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-11Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-11Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-12A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-12B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213931-12C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-12D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-12X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-12Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-12Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-13A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-13B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-13C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-13D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-13X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-13Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-13Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-14A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-14B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-14C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-14D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-14X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-14Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-14Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-15A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-15B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-15C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-15D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-15X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-15Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-15Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-16A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-16B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213931-16C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-16D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-16X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-16Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-16Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-17A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-17B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-17C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-17D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-17X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-17Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-17Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-18A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-18B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-18C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-18D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-18X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260HLW(14)
L2213931-18Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-18Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260HLW(14)
L2213931-19A	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-19B	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-19C	5 gram Encore Sampler	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-19D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2213931-19X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		PA-8260H(14),PA-8260HLW(14)
L2213931-19Y	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-19Z	Vial Water preserved split	A	NA		3.8	Y	Absent	18-MAR-22 08:14	PA-8260H(14),PA-8260HLW(14)
L2213931-20A	Vial HCl preserved	A	NA		3.8	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2213931-20B	Vial HCl preserved	A	NA		3.8	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2213931
Report Date: 04/12/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213931-20C	Vial HCl preserved	A	NA		3.8	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2213931-21A	Vial HCl preserved	A	NA		3.8	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2213931-21B	Vial HCl preserved	A	NA		3.8	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2213931
Project Number:	30108678.03C	**Report Date:**	04/12/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

NEW JERSEY CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: (of 2

Date Rec'd in Lab: 03/18/22

ALPHA Job #: L2213931

Client Information
Client: Arcadis
Address: 1 Harmon Cove Blvd Ste
Hillsborough NJ
Phone: 908-526-1616
Fax:
Email: Larry.Brant@arcadis.com

Project Information
Project Name: Allright 9/12 Church
Project Location: Phila, PA
Project #: 30108678.03C
(Use Project name as Project #)
Project Manager: Larry Brant
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved):
Due Date:
# of Days:

Deliverables
- NJ Full / Reduced
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Billing Information
- Same as Client Info
PO #

Regulatory Requirement
- SRS Residential/Non Residential
- SRS Impact to Groundwater
- NJ Ground Water Quality Standards
- NJ IGW SPLP Leachate Criteria
- Other

Site Information
Is this site impacted by Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
- Category 1
- Category 2

For VOC, selection is REQUIRED:
- 1,4-Dioxane
- 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC +10	Sample Specific Comments
13931-01	MW-8 (5.5-6)	3/16/22	1210	Soil	MH	X	
-02	SB-201 (5.5-9)		1405			X	
-03	SB-202 (5.5-9)		1430			X	
-04	SB-203 (5.5-9)		1430			X	
-05	SB-204 (5.5-9)		1435			X	
-06	SB-205 (3.5-4)		1445			X	
-07	SB-206 (2.5-3)	3/17/22	835			X	
-08	SB-207 (4-4.5)		850			X	
-09	SB-208 (4-4.5)		900			X	
-10	SB-209 (3.5-4)		925			X	

Container Type: TT
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hillish	3/17/22 1230		3/17/22 1238
	3/17/22 1710		3/17/22 1720
			3/17/22 2030
	3/18/22	AAL	3/18/22 0035
AAL	3/18/22 0800		3/18/22 0350

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 3

Date Rec'd in Lab: 03/18/22

ALPHA Job #: L2213931

Client Information

Client: Arcadis
Address: 1 Harvard Key Flr 4
Hillsborough NJ
Phone: 908-926-1000
Fax:
Email: Larry.brightarcadis.com

Project Information

Project Name: Allimite 4th Floor
Project Location: Phila, Pa
Project # 30108678.C3C
(Use Project name as Project #) ☐
Project Manager: Larry Bright
ALPHAQuote #:

Turn-Around Time

Standard ☒
Rush (only if pre approved) ☐
Due Date:
# of Days:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables

☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information

☐ Same as Client Info
PO #

Site Information

Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

Sample Filtration

☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC +14	VOC +10	Total Bottle
13931 -11	SB-21C (4-4.5)	3/17/22	935	SO	MH	X		4
-12	SB-211 (3.5-4)		940			X		
-13	SB-212 (4.5-5)		1000			X		
-14	SB-213 (4-4.5)		1010			X		
-15	SB-214 (4-4.5)		1020			X		
-16	SB-215 (4.5-5)		1030			X		
-17	SB-216 (3.5-4)		1040			X		
-18	SB-217 (8.5-9)		1125			X		
-19	DUP-1		X			X		
-20	Field Blank		1135	AQ			X	3

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	E	AV
Preservative	A	B

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilliard	3/17/22 1234	[illegible]	3/17/22 1234
[illegible]	3/17/22 1720	[illegible]	3-17 1720
[illegible]	3/17/22 2030	[illegible]	3/17/22 2030
[illegible]	3/18/22	[illegible]	3/18/22 0030
[illegible]	3/18/22 0300	[illegible]	3/18/22 0300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3 of 3

Date Rec'd in Lab: 03/18/22

ALPHA Job #: L2213931

Client Information
Client: Arrichs
Address: 1 Hayward Way ste M
Hillsborough, NJ
Phone: 908-526-1020
Fax:
Email: Larry.Grant@arrichs.com

Project Information
Project Name: Allright 51st street
Project Location: Phila, Pa
Project #: 3010 8678.03C
(Use Project name as Project #): ☐
Project Manager: Larry Rhatt
ALPHAQuote #:

Turn-Around Time
Standard: ☒ Due Date:
Rush (only if pre approved): ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS
VOC

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	Sample Specific Comments	Total Bottle
13931 -21	Trip Blank			AQ	LAB	✓		2

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type: HV
Preservative: R

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Whitsitt	3/17/22 1237	ALAL	3/17/22 1236
ALAL	3/17/22 1720	CMC	3-17 2020
CMC	3-17 2034		
	3/18/22		3/18/22 0030
ALAL	3/18/22 0300		3/18/22 0300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

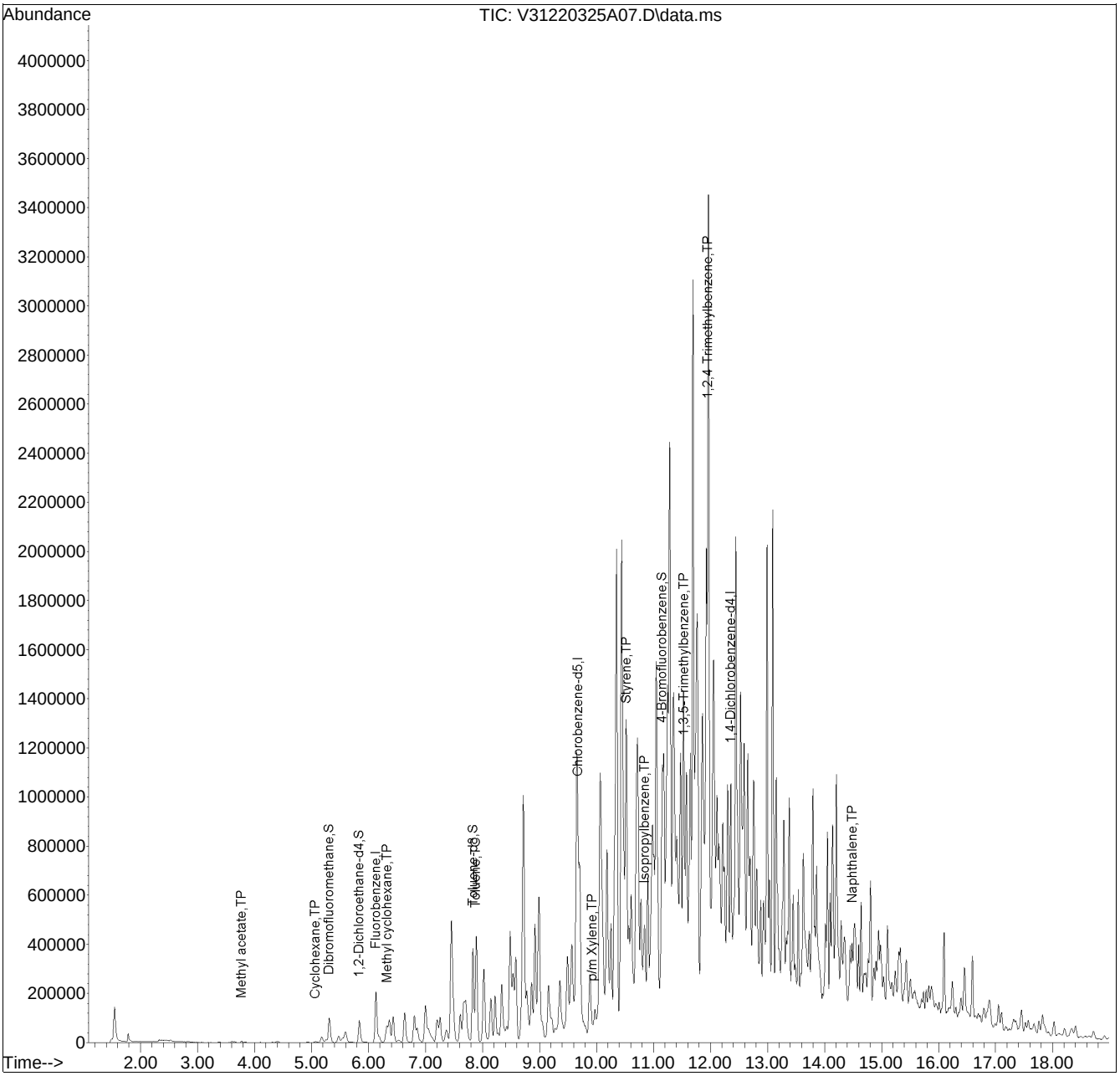
Form No: 01-14 HC (rev. 30-Sept-2013)

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220325A\
Data File : V31220325A07.D
Acq On : 25 Mar 2022 09:42 am
Operator : VOA131:KJD
Sample : L2213931-02D,31H,4.23,5,0.020,,X
Misc : WG1620539,ICAL18820
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 07 15:43:20 2022
Quant Method : I:\VOLATILES\VOA131\2022\220325A\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB

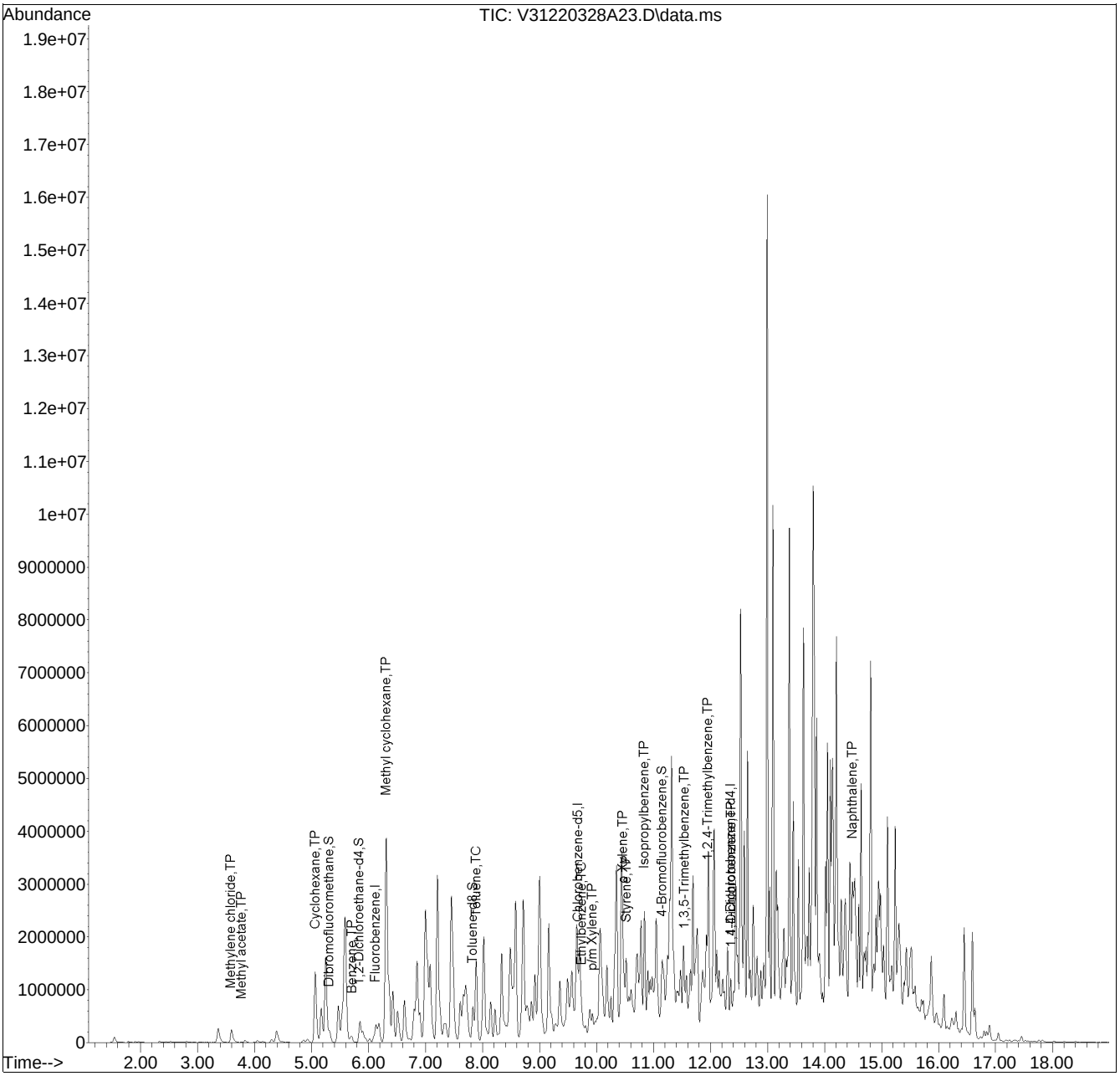


Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220328A\
Data File : V31220328A23.D
Acq On : 28 Mar 2022 05:16 pm
Operator : VOA131:KJD
Sample : l2213931-04,31H,3.40,5,0.100,,x
Misc : WG1620539,ICAL18820
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 29 11:15:30 2022
Quant Method : I:\VOLATILES\VOA131\2022\220328A\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB

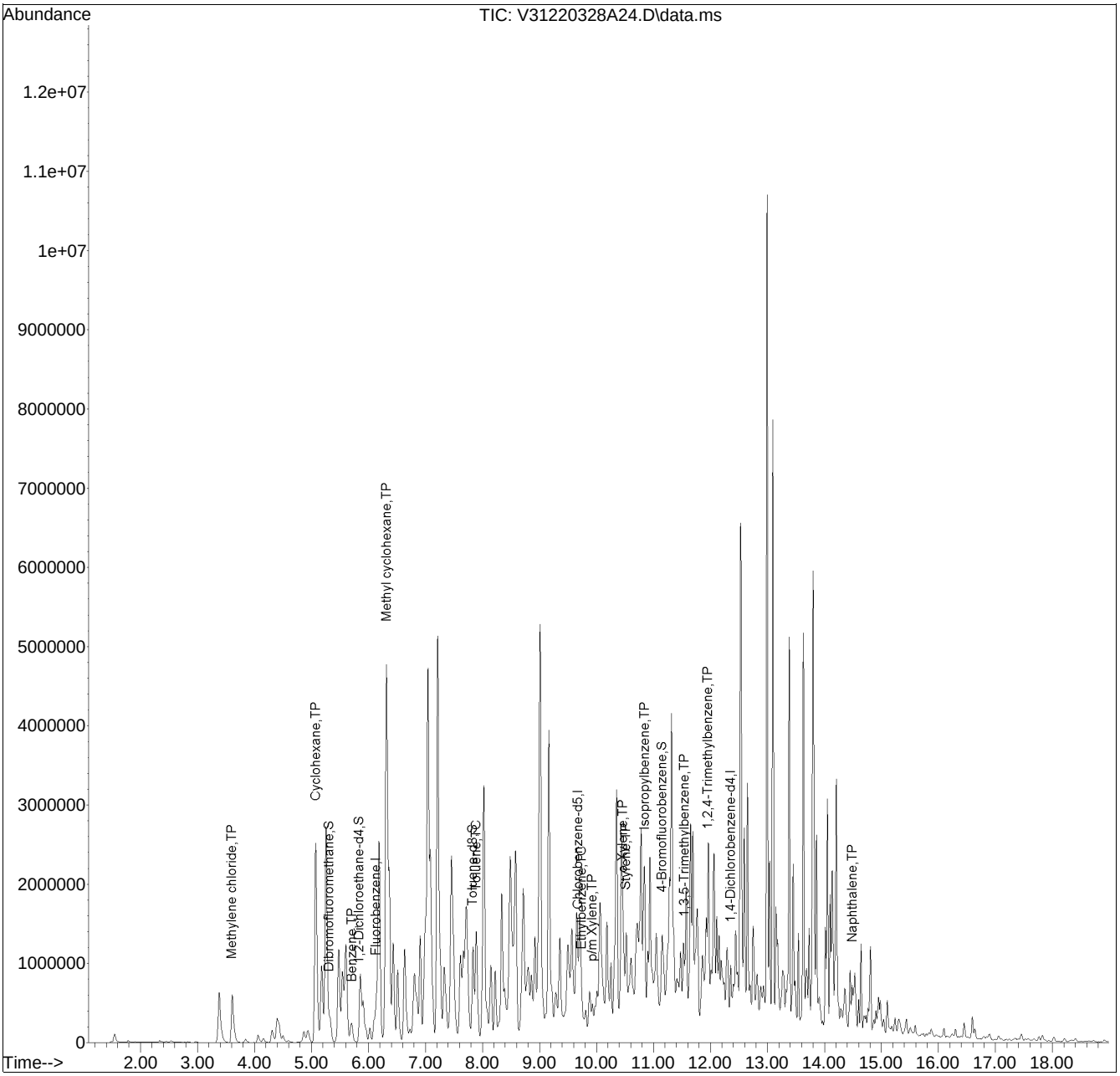


Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220328A\
Data File : V31220328A24.D
Acq On : 28 Mar 2022 05:39 pm
Operator : VOA131:KJD
Sample : l2213931-05D,31H,4.70,5,0.020,,x
Misc : WG1620539,ICAL18820
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 29 11:16:28 2022
Quant Method : I:\VOLATILES\VOA131\2022\220328A\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB

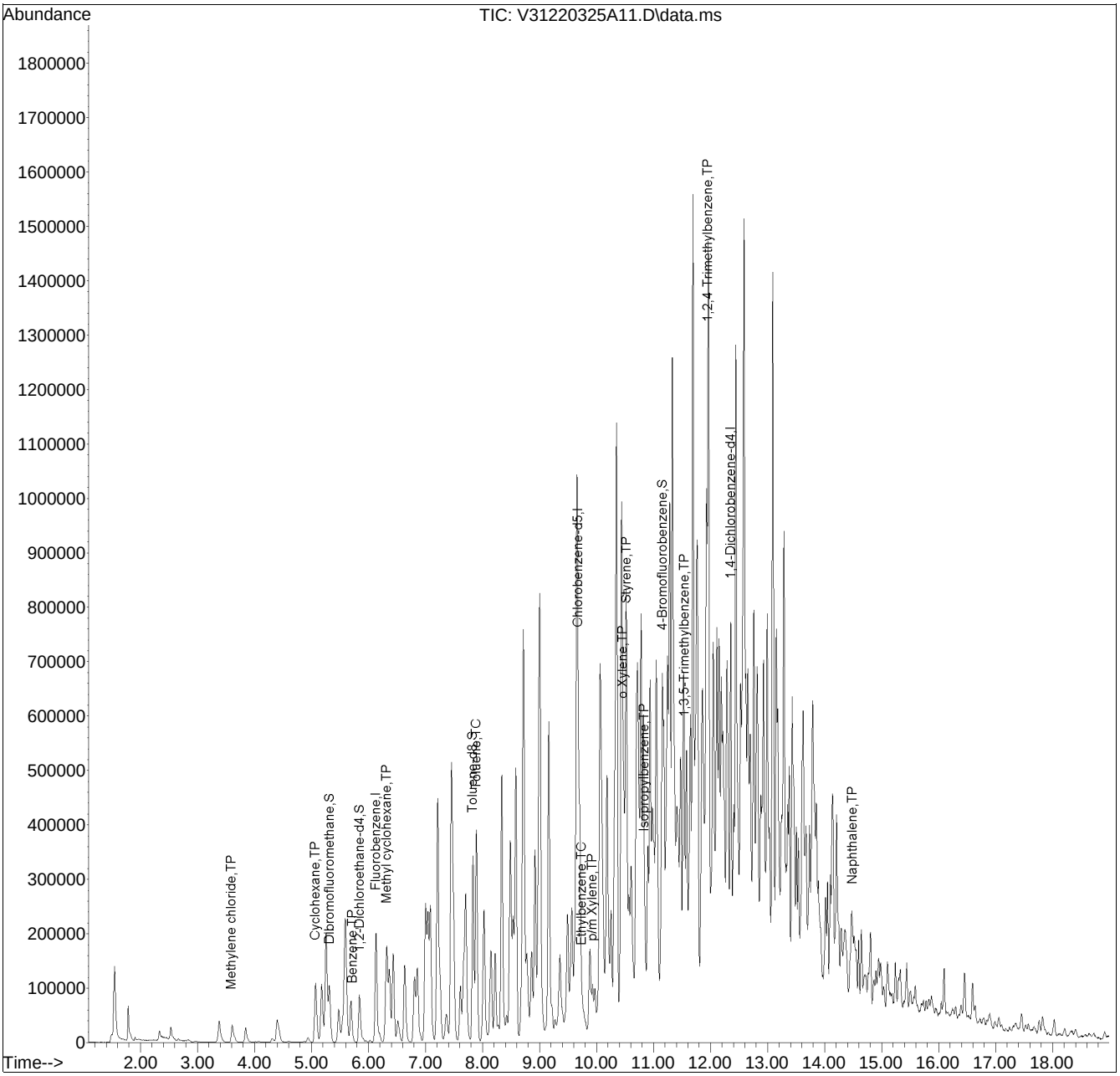


Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220325A\
Data File : V31220325A11.D
Acq On : 25 Mar 2022 11:16 am
Operator : VOA131:KJD
Sample : L2213931-06D,31H,5.07,5,0.020,,X
Misc : WG1620539,ICAL18820
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 28 09:07:58 2022
Quant Method : I:\VOLATILES\VOA131\2022\220325A\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB

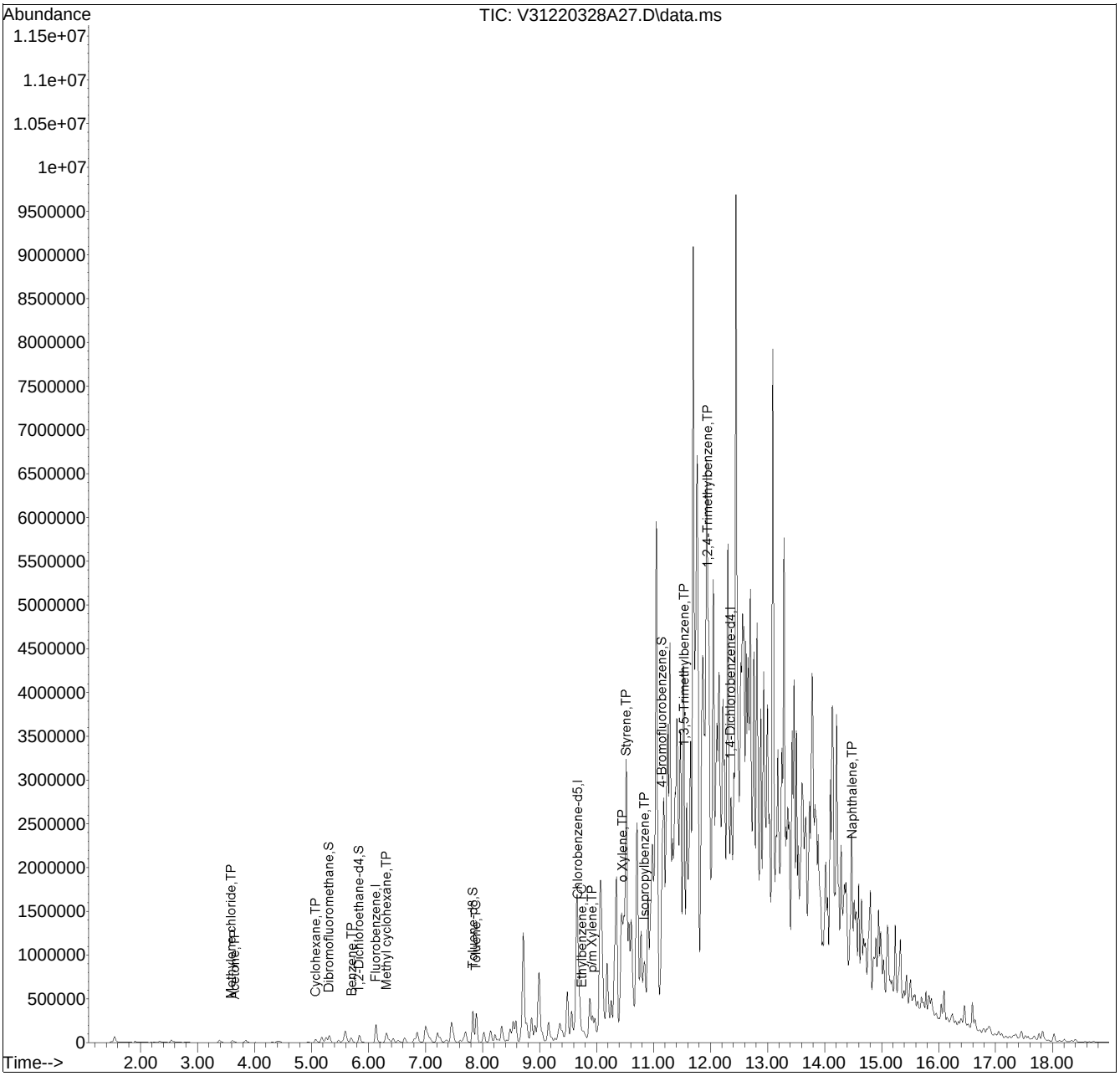


Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220328A\
Data File : V31220328A27.D
Acq On : 28 Mar 2022 06:48 pm
Operator : VOA131:KJD
Sample : l2213931-07,31,4.23,5,,z
Misc : WG1621094,ICAL18820
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 29 11:18:27 2022
Quant Method : I:\VOLATILES\VOA131\2022\220328A\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB

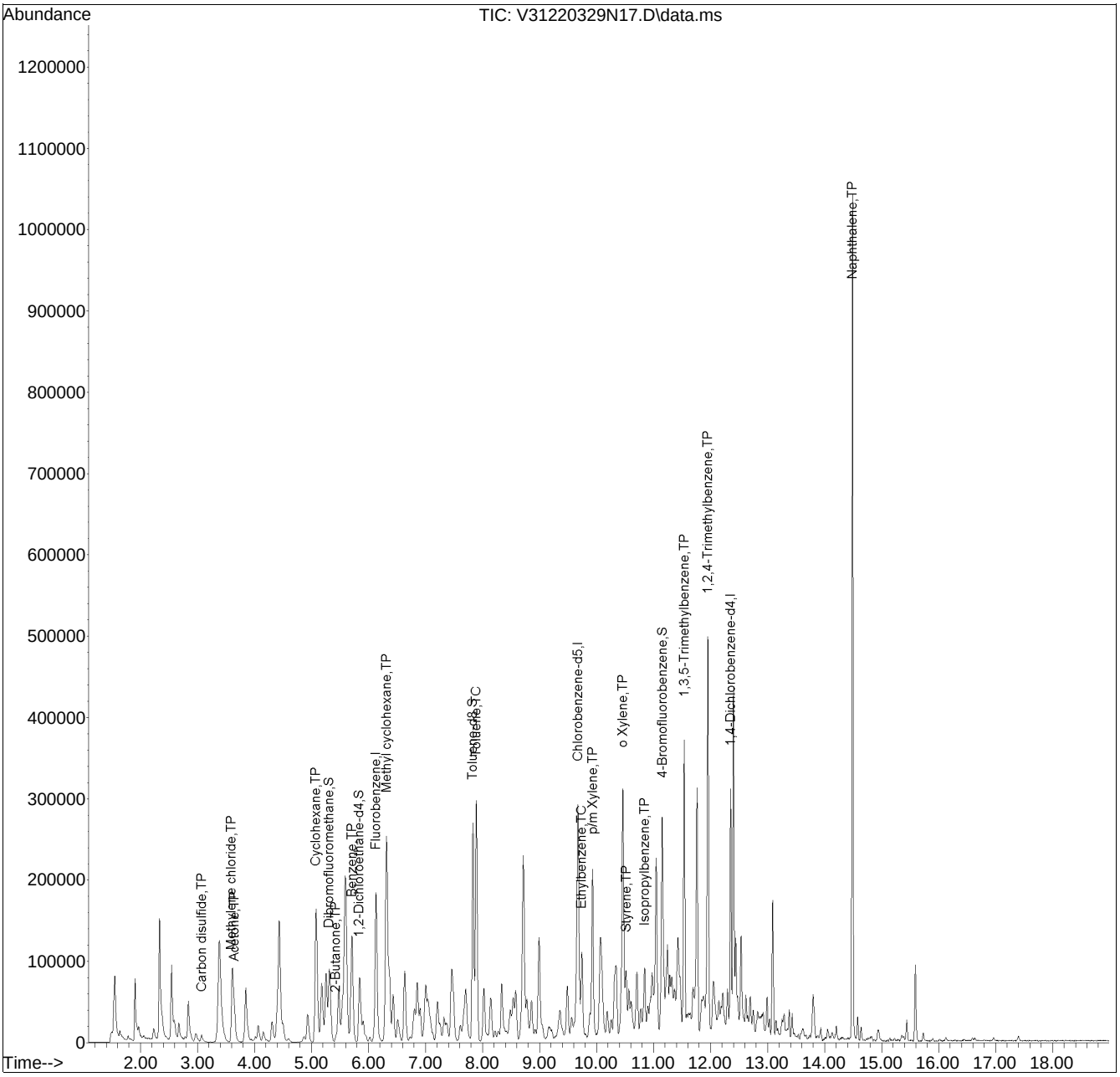


Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220329N\
Data File : V31220329N17.D
Acq On : 29 Mar 2022 09:16 pm
Operator : VOA131:KJD
Sample : l2213931-08,31,4.72,5,,y
Misc : WG1621453,ICAL18820
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 30 07:46:50 2022
Quant Method : I:\VOLATILES\VOA131\2022\220329N\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB

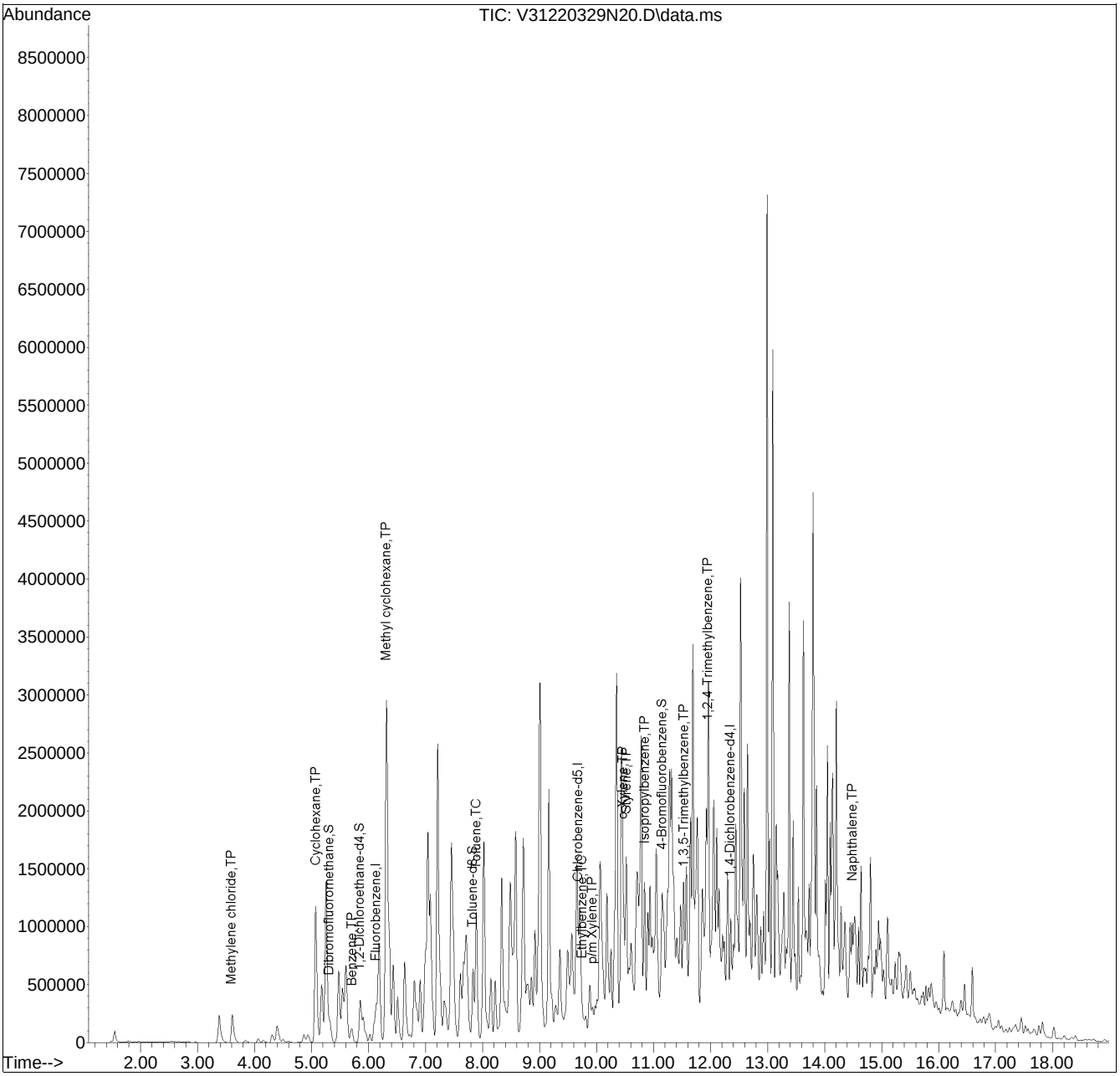


Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA131\2022\220329N\
Data File : V31220329N20.D
Acq On : 29 Mar 2022 10:25 pm
Operator : VOA131:KJD
Sample : l2213931-18D,31H,4.62,5,0.020,,x
Misc : WG1621455,ICAL18820
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 30 07:49:34 2022
Quant Method : I:\VOLATILES\VOA131\2022\220329N\V31_220310A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 10 16:17:49 2022
Response via : Initial Calibration

Sub List : 8260-NJTCL+3+TBA - Standard NJ Sublist plus N,135/124TMB



ANALYTICAL REPORT

Lab Number:	L2310798
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST ST
Project Number:	30108678
Report Date:	03/15/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2310798
Report Date: 03/15/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2310798-01	PIPE 29 4.5-5	SOIL	PHILA, PA	03/01/23 11:10	03/01/23
L2310798-02	SB-301 (1.5-2)	SOIL	PHILA, PA	03/01/23 11:30	03/01/23
L2310798-03	SB-301 (4.5-5)	SOIL	PHILA, PA	03/01/23 11:30	03/01/23
L2310798-04	SB-302 (4.5-5)	SOIL	PHILA, PA	03/01/23 14:20	03/01/23
L2310798-05	SB-303 (4-4.5)	SOIL	PHILA, PA	03/01/23 14:20	03/01/23
L2310798-06	TRIP BLANK	WATER	PHILA, PA	02/28/23 00:00	03/01/23

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2310798
Project Number:	30108678	**Report Date:**	03/15/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2310798
Project Number:	30108678	**Report Date:**	03/15/23

Case Narrative (continued)

Report Submission

March 15, 2023: This final report includes the results of all requested analyses.

March 08, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2310798-06: The analyses performed were specified by the client.

Volatile Organics

L2310798-01: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (43%), possibly due to the matrix effect caused by the high pH of the sample (>10).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 03/15/23

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2310798
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2310798-01
Client ID: PIPE 29 4.5-5
Sample Location: PHILA, PA
Date Collected: 03/01/23 11:10
Date Received: 03/01/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/02/23 16:44
Analyst: LAC
Percent Solids: 56%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00096	0.00032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	**43**	Q	70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2310798
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2310798-02
Client ID: SB-301 (1.5-2)
Sample Location: PHILA, PA

Date Collected: 03/01/23 11:30
Date Received: 03/01/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/02/23 17:11
Analyst: LAC
Percent Solids: 54%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.0010	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2310798
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2310798-04
Client ID: SB-302 (4.5-5)
Sample Location: PHILA, PA
Date Collected: 03/01/23 14:20
Date Received: 03/01/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/02/23 18:06
Analyst: LAC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00055	0.00018	1
Naphthalene	ND		mg/kg	0.0044	0.00072	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	104		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2310798
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2310798-05
Client ID: SB-303 (4-4.5)
Sample Location: PHILA, PA

Date Collected: 03/01/23 14:20
Date Received: 03/01/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/07/23 12:53
Analyst: MKS
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Naphthalene	ND		mg/kg	0.0043	0.00069	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2310798
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2310798-06
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 02/28/23 00:00
Date Received: 03/01/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/03/23 11:31
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Naphthalene	ND		ug/l	1.0	0.22	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	114		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2310798
Report Date: 03/15/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/02/23 09:05
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02,04 Batch: WG1750531-5					
Benzene	ND		mg/kg	0.00050	0.00017
Naphthalene	ND		mg/kg	0.0040	0.00065

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2310798
Report Date: 03/15/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/03/23 09:48
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1751542-5					
Benzene	ND		ug/l	0.50	0.16
Naphthalene	ND		ug/l	1.0	0.22

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	108		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2310798
Report Date: 03/15/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/07/23 08:58
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05 Batch: WG1752194-5					
Naphthalene	ND		mg/kg	0.0040	0.00065

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	108		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2310798

Report Date: 03/15/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02,04 Batch: WG1750531-3 WG1750531-4								
Benzene	88		92		70-130	4		30
Naphthalene	103		105		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		95		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	95		98		70-130
Dibromofluoromethane	99		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2310798

Report Date: 03/15/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1751542-3 WG1751542-4								
Benzene	110		110		70-130	0		20
Naphthalene	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		105		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	98		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2310798
Report Date: 03/15/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 Batch: WG1752194-3 WG1752194-4								
Naphthalene	100		102		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	85		88		70-130
Toluene-d8	103		98		70-130
4-Bromofluorobenzene	118		105		70-130
Dibromofluoromethane	84		85		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2310798
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2310798-01
Client ID: PIPE 29 4.5-5
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 03/01/23 11:10
Date Received: 03/01/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	55.7		%	0.100	NA	1	-	03/02/23 11:03	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2310798
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2310798-02
Client ID: SB-301 (1.5-2)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 03/01/23 11:30
Date Received: 03/01/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	54.4		%	0.100	NA	1	-	03/02/23 11:03	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2310798
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2310798-04
Client ID: SB-302 (4.5-5)
Sample Location: PHILA, PA

Date Collected: 03/01/23 14:20
Date Received: 03/01/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	03/02/23 11:03	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2310798
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2310798-05
Client ID: SB-303 (4-4.5)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 03/01/23 14:20
Date Received: 03/01/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	03/02/23 11:03	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2310798

Report Date: 03/15/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-05 QC Batch ID: WG1750204-1 QC Sample: L2310690-01 Client ID: DUP Sample						
Solids, Total	79.0	77.8	%	2		20

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2310798
Report Date: 03/15/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2310798-01A	5 gram Encore Sampler	A	NA		2.1	Y	Absent		PA-8260HLW-BTEX(14)
L2310798-01B	5 gram Encore Sampler	A	NA		2.1	Y	Absent		PA-8260HLW-BTEX(14)
L2310798-01C	5 gram Encore Sampler	A	NA		2.1	Y	Absent		PA-8260HLW-BTEX(14)
L2310798-01D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2310798-01X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		PA-8260HLW-BTEX(14)
L2310798-01Y	Vial Water preserved split	A	NA		2.1	Y	Absent	02-MAR-23 07:06	PA-8260HLW-BTEX(14)
L2310798-01Z	Vial Water preserved split	A	NA		2.1	Y	Absent	02-MAR-23 07:06	PA-8260HLW-BTEX(14)
L2310798-02A	5 gram Encore Sampler	A	NA		2.1	Y	Absent		PA-8260HLW-BTEX(14)
L2310798-02B	5 gram Encore Sampler	A	NA		2.1	Y	Absent		PA-8260HLW-BTEX(14)
L2310798-02C	5 gram Encore Sampler	A	NA		2.1	Y	Absent		PA-8260HLW-BTEX(14)
L2310798-02D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2310798-02X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		PA-8260HLW-BTEX(14)
L2310798-02Y	Vial Water preserved split	A	NA		2.1	Y	Absent	02-MAR-23 07:06	PA-8260HLW-BTEX(14)
L2310798-02Z	Vial Water preserved split	A	NA		2.1	Y	Absent	02-MAR-23 07:06	PA-8260HLW-BTEX(14)
L2310798-03A	5 gram Encore Sampler	A	NA		2.1	Y	Absent		HOLD-8260HLW(14)
L2310798-03B	5 gram Encore Sampler	A	NA		2.1	Y	Absent		HOLD-8260HLW(14)
L2310798-03C	5 gram Encore Sampler	A	NA		2.1	Y	Absent		HOLD-8260HLW(14)
L2310798-03D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		HOLD-WETCHEM()
L2310798-03X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		HOLD-8260HLW(14)
L2310798-03Y	Vial Water preserved split	A	NA		2.1	Y	Absent	02-MAR-23 07:06	HOLD-8260HLW(14)
L2310798-03Z	Vial Water preserved split	A	NA		2.1	Y	Absent	02-MAR-23 07:06	HOLD-8260HLW(14)
L2310798-04A	5 gram Encore Sampler	A	NA		2.1	Y	Absent		PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2310798
Report Date: 03/15/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2310798-04B	5 gram Encore Sampler	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2310798-04C	5 gram Encore Sampler	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2310798-04D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2310798-04X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2310798-04Y	Vial Water preserved split	A	NA		2.1	Y	Absent	02-MAR-23 07:06	PA-8260HLW(14)
L2310798-04Z	Vial Water preserved split	A	NA		2.1	Y	Absent	02-MAR-23 07:06	PA-8260HLW(14)
L2310798-05A	5 gram Encore Sampler	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2310798-05B	5 gram Encore Sampler	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2310798-05C	5 gram Encore Sampler	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2310798-05D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2310798-05X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		PA-8260HLW(14)
L2310798-05Y	Vial Water preserved split	A	NA		2.1	Y	Absent	02-MAR-23 07:06	PA-8260HLW(14)
L2310798-05Z	Vial Water preserved split	A	NA		2.1	Y	Absent	02-MAR-23 07:06	PA-8260HLW(14)
L2310798-06A	Vial HCl preserved	A	NA		2.1	Y	Absent		PA-8260(14)
L2310798-06B	Vial HCl preserved	A	NA		2.1	Y	Absent		PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2310798
Project Number:	30108678	**Report Date:**	03/15/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2310798
Project Number:	30108678	**Report Date:**	03/15/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 3/2/23

ALPHA Job #: L2310798

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Arcadis

Address: 1 Penrod Way ste 5
Pittsburgh PA

Phone: 905-526-1010

Fax:

Email: Larry.Brunt@arcadis.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Allied Gift St

Project Location: Phila, Pa

Project #: 30108676

Project Manager: Larry Brunt

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: 8260 - BTEX/MTBE	8260 - Naphthalene	1,4-Dioxane	SAMPLE HANDLING	TOTAL # BOTTLES
10798-01	Pipe 29 4.5-5	3/1/23	1110	Soil	MH	X				4
-02	SB-301 (1.5-2)		1115			X				
-03	SB-301 (4.5-5)		1120				X			
-04	SB-302 (4.5-5)		1130			X	X			
-05	SB-303 (4.5-5)		1140				X			
-06	~~Field Blank~~ Trip Blank	3/1/23	—	Aq	LH		X	X		

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

Container Type	P																							
Preservative	A																							

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Williams	3/1/23 1615	Nicole Ali AAL	3/1/23 15:45
Nicole Ali AAL	3/1/23 1800		3/1/23 1800
	3/1/23 2100		3/1/23 2100

3/2/23 0110

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L2314083
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST ST
Project Number:	30108678
Report Date:	04/04/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2314083-01	2040-P2 (9.5-10)	SOIL	PHILA, PA	03/17/23 09:15	03/17/23
L2314083-02	1043-P4 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:45	03/17/23
L2314083-03	1043-P5 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:50	03/17/23
L2314083-04	SB-304 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:20	03/17/23
L2314083-05	SB-304 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:20	03/17/23
L2314083-06	SB-305 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:35	03/17/23
L2314083-07	SB-305 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:35	03/17/23
L2314083-08	SB-306 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:55	03/17/23
L2314083-09	SB-306 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:55	03/17/23
L2314083-10	SB-307 (5.5-6)	SOIL	PHILA, PA	03/17/23 11:30	03/17/23
L2314083-11	SB-308 (5.5-6)	SOIL	PHILA, PA	03/17/23 11:20	03/17/23
L2314083-12	SB-309 (4.5-5)	SOIL	PHILA, PA	03/17/23 11:15	03/17/23
L2314083-13	SB-310 (8.5-9)	SOIL	PHILA, PA	03/17/23 10:20	03/17/23
L2314083-14	SB-311 (7.5-8)	SOIL	PHILA, PA	03/17/23 10:25	03/17/23
L2314083-15	SB-312 (4.5-5)	SOIL	PHILA, PA	03/17/23 11:00	03/17/23
L2314083-16	SB-313 (7.5-8)	SOIL	PHILA, PA	03/17/23 10:40	03/17/23
L2314083-17	SB-314 (7.5-8)	SOIL	PHILA, PA	03/17/23 10:00	03/17/23
L2314083-18	SB-314 (2.5-3)	SOIL	PHILA, PA	03/17/23 10:00	03/17/23
L2314083-19	SB-315 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:30	03/17/23
L2314083-20	SB-315 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:30	03/17/23
L2314083-21	SB-316 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:25	03/17/23
L2314083-22	SB-316 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:25	03/17/23
L2314083-23	DUP-1	SOIL	PHILA, PA	03/17/23 00:00	03/17/23
L2314083-24	FIELD BLANK	WATER	PHILA, PA	03/17/23 12:45	03/17/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2314083-25	TRIP BLANK	WATER	PHILA, PA	03/16/23 00:00	03/17/23

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2314083
Project Number:	30108678	**Report Date:**	04/04/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2314083
Project Number:	30108678	**Report Date:**	04/04/23

Case Narrative (continued)

Report Submission

April 04, 2023: This final report includes the results of all requested analyses.

March 27, 2023: This preliminary report includes the results of the following analyses:

L2314083-07 and -19: Total Lead

March 22, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2314083-14: The collection date and time on the chain of custody was 17-MAR-23 10:30; however, the collection date/time on the container label was 17-MAR-23 10:25. At the client's request, the collection date/time is reported as 17-MAR-23 10:25.

L2314083-22: The collection date on the chain of custody was 17-MAR-23; however, the collection date on the container label was 16-MAR-23. At the client's request, the collection date/time is reported as 17-MAR-23 09:25.

Volatile Organics

L2314083-13: One or more of the internal standard recoveries are outside the acceptance criteria; however, the internal standards are within criteria for the target compound; therefore, the results are reported.

Total Metals

L2314083-01: The sample has an elevated detection limit due to the dilution required by the sample matrix.

The WG1758367-3 MS recovery, performed on L2314083-07, is outside the acceptance criteria for lead (172%). A post digestion spike was performed and was within acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 04/04/23

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-13
Client ID: SB-310 (8.5-9)
Sample Location: PHILA, PA
Date Collected: 03/17/23 10:20
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/20/23 13:47
Analyst: AJK
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00080	0.00026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	110		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-14
Client ID: SB-311 (7.5-8)
Sample Location: PHILA, PA

Date Collected: 03/17/23 10:25
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/20/23 14:08
Analyst: AJK
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00064	0.00021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-24
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 03/17/23 12:45
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/20/23 21:11
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	110		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-25
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 03/16/23 00:00
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/20/23 21:36
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	113		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/20/23 10:41
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 13-14 Batch: WG1756974-5					
Benzene	ND		mg/kg	0.00050	0.00017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/20/23 20:21
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 24-25 Batch: WG1757144-5					
Benzene	ND		ug/l	0.50	0.16

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 13-14 Batch: WG1756974-3 WG1756974-4								
Benzene	88		92		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		107		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	103		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2314083

Report Date: 04/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 24-25 Batch: WG1757144-3 WG1757144-4								
Benzene	93		95		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		94		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	98		101		70-130

SEMIVOLATILES

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-11
Client ID: SB-308 (5.5-6)
Sample Location: PHILA, PA

Date Collected: 03/17/23 11:20
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E-SIM
Analytical Date: 03/22/23 09:49
Analyst: JJW
Percent Solids: 61%

Extraction Method: EPA 3546
Extraction Date: 03/21/23 14:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		mg/kg	0.055	0.015	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		25-120
Phenol-d6	35		10-120
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	52		10-136
4-Terphenyl-d14	47		18-120

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-24
Client ID: FIELD BLANK
Sample Location: PHILA, PA

Date Collected: 03/17/23 12:45
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 03/21/23 16:17
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/21/23 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	103		10-120
4-Terphenyl-d14	88		41-149

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 03/21/23 16:00
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/21/23 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 24 Batch: WG1756901-1					
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	87		41-149

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 03/22/23 09:33
Analyst: JJW

Extraction Method: EPA 3546
Extraction Date: 03/21/23 14:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 11 Batch: WG1757105-1					
Bis(2-chloroethyl)ether	ND		mg/kg	0.033	0.0092

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	59		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2314083

Report Date: 04/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 24 Batch: WG1756901-2 WG1756901-3								
Bis(2-chloroethyl)ether	63		64		40-140	2		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	66		64		21-120
Phenol-d6	62		61		10-120
Nitrobenzene-d5	82		83		23-120
2-Fluorobiphenyl	75		76		15-120
2,4,6-Tribromophenol	112		115		10-120
4-Terphenyl-d14	74		78		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2314083

Report Date: 04/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 11 Batch: WG1757105-2 WG1757105-3								
Bis(2-chloroethyl)ether	64		59		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		66		25-120
Phenol-d6	72		68		10-120
Nitrobenzene-d5	78		73		23-120
2-Fluorobiphenyl	68		65		30-120
2,4,6-Tribromophenol	68		67		10-136
4-Terphenyl-d14	64		62		18-120

METALS

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-01
Client ID: 2040-P2 (9.5-10)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:15
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	3.43	J	mg/kg	13.7	0.736	5	03/21/23 05:25	03/21/23 17:54	EPA 3050B	1,6010D	DHL

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-02
Client ID: 1043-P4 (7.5-8)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:45
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	56.0		mg/kg	2.47	0.132	1	03/21/23 05:25	03/21/23 13:07	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-03
Client ID: 1043-P5 (7.5-8)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Percent Solids: 71%

Date Collected: 03/17/23 09:50
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	39.8		mg/kg	2.76	0.148	1	03/21/23 05:25	03/21/23 13:12	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Lab Number: L2314083
Project Number: 30108678
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-04
Client ID: SB-304 (2.5-3)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:20
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	15.6		mg/kg	2.47	0.132	1	03/21/23 05:25	03/21/23 13:16	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-06
Client ID: SB-305 (2.5-3)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:35
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	602		mg/kg	2.38	0.128	1	03/21/23 05:25	03/21/23 13:21	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Lab Number: L2314083
Project Number: 30108678
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-07
Client ID: SB-305 (7.5-8)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:35
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	37.0		mg/kg	2.27	0.122	1	03/24/23 08:35	03/26/23 11:35	EPA 3050B	1,6010D	EGW

Project Name: ALLIANCE 51ST ST
Lab Number: L2314083
Project Number: 30108678
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-08
Client ID: SB-306 (2.5-3)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:55
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	11.6		mg/kg	2.54	0.136	1	03/21/23 05:25	03/21/23 13:26	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-10
Client ID: SB-307 (5.5-6)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Percent Solids: 87%

Date Collected: 03/17/23 11:30
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	7.56		mg/kg	2.21	0.119	1	03/21/23 05:25	03/21/23 13:31	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Lab Number: L2314083
Project Number: 30108678
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-12
Client ID: SB-309 (4.5-5)
Sample Location: PHILA, PA
Date Collected: 03/17/23 11:15
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	87.4		mg/kg	2.16	0.116	1	03/21/23 05:25	03/21/23 13:35	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-19
Client ID: SB-315 (2.5-3)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:30
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	41.6		mg/kg	2.52	0.135	1	03/24/23 08:35	03/26/23 11:19	EPA 3050B	1,6010D	EGW

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-23
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 03/17/23 00:00
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	919		mg/kg	2.48	0.133	1	03/21/23 05:25	03/21/23 13:40	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-24
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 03/17/23 12:45
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	03/19/23 12:31	03/19/23 20:25	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 24 Batch: WG1756270-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	03/19/23 12:31	03/19/23 18:55	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04,06,08,10,12,23 Batch: WG1756810-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	03/21/23 05:25	03/21/23 10:51	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 07,19 Batch: WG1758367-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	03/24/23 08:35	03/26/23 11:10	1,6010D	EGW

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2314083

Report Date: 04/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 24 Batch: WG1756270-2								
Lead, Total	102		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-04,06,08,10,12,23 Batch: WG1756810-2 SRM Lot Number: D116-540								
Lead, Total	97		-		83-117	-		
Total Metals - Mansfield Lab Associated sample(s): 07,19 Batch: WG1758367-2 SRM Lot Number: D116-540								
Lead, Total	103		-		83-117	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 24 QC Batch ID: WG1756270-3 QC Sample: L2314101-01 Client ID: MS Sample												
Lead, Total	ND	530	511.0	96		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-04,06,08,10,12,23 QC Batch ID: WG1756810-3 QC Sample: L2314284-01 Client ID: MS Sample												
Lead, Total	5.18	50.3	52.8	95		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 07,19 QC Batch ID: WG1758367-3 QC Sample: L2314083-07 Client ID: SB-305 (7.5-8)												
Lead, Total	37.0	48.1	120	**172**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2314083

Report Date: 04/04/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 24 QC Batch ID: WG1756270-4 QC Sample: L2314101-01 Client ID: DUP Sample						
Lead, Total	ND	ND	ug/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-04,06,08,10,12,23 QC Batch ID: WG1756810-4 QC Sample: L2314284-01 Client ID: DUP Sample						
Lead, Total	5.18	5.07	mg/kg	2		20
Total Metals - Mansfield Lab Associated sample(s): 07,19 QC Batch ID: WG1758367-4 QC Sample: L2314083-07 Client ID: SB-305 (7.5-8)						
Lead, Total	37.0	36.9	mg/kg	0		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-01
Client ID: 2040-P2 (9.5-10)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/23 09:15
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.7		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-02
Client ID: 1043-P4 (7.5-8)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:45
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.7		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-03
Client ID: 1043-P5 (7.5-8)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/23 09:50
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.6		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-04
Client ID: SB-304 (2.5-3)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/23 09:20
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-06
Client ID: SB-305 (2.5-3)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/23 09:35
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-07
Client ID: SB-305 (7.5-8)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/23 09:35
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	03/24/23 08:28	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-08
Client ID: SB-306 (2.5-3)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/23 09:55
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.1		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-10
Client ID: SB-307 (5.5-6)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/23 11:30
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-11
Client ID: SB-308 (5.5-6)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/23 11:20
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.6		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-12
Client ID: SB-309 (4.5-5)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/23 11:15
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-13
Client ID: SB-310 (8.5-9)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 03/17/23 10:20
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.2		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-14
Client ID: SB-311 (7.5-8)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/23 10:25
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-19
Client ID: SB-315 (2.5-3)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 03/17/23 09:30
Date Received: 03/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.3		%	0.100	NA	1	-	03/24/23 08:28	121,2540G	ROI

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

SAMPLE RESULTS

Lab ID: L2314083-23
Client ID: DUP-1
Sample Location: PHILA, PA

Date Collected: 03/17/23 00:00
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.4		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2314083

Report Date: 04/04/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04,06,08,10-14,23 QC Batch ID: WG1756102-1 QC Sample: L2314150-01 Client ID: DUP Sample						
Solids, Total	95.8	96.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 07,19 QC Batch ID: WG1758382-1 QC Sample: L2315307-01 Client ID: DUP Sample						
Solids, Total	88.0	90.7	%	3		20

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2314083-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-01B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-02B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-03B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-04B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-05A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-05B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-06B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-07A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-07B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-08B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-09A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-09B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-10B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-11A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PA-8270SIM(14)
L2314083-11B	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		TS(7)
L2314083-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2314083-12B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-13A	5 gram Encore Sampler	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-13B	5 gram Encore Sampler	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-13C	5 gram Encore Sampler	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-13D	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-13E	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-13F	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-13X	Vial MeOH preserved split	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-13Y	Vial Water preserved split	A	NA		4.0	Y	Absent	18-MAR-23 13:32	PA-8260HLW-BTEX(14)
L2314083-13Z	Vial Water preserved split	A	NA		4.0	Y	Absent	18-MAR-23 13:32	PA-8260HLW-BTEX(14)
L2314083-14A	5 gram Encore Sampler	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-14B	5 gram Encore Sampler	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-14C	5 gram Encore Sampler	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-14D	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-14E	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		HOLD-8270(14)
L2314083-14F	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		HOLD-8270(14)
L2314083-14G	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-14H	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-14X	Vial MeOH preserved split	A	NA		4.0	Y	Absent		PA-8260HLW-BTEX(14)
L2314083-14Y	Vial Water preserved split	A	NA		4.0	Y	Absent	18-MAR-23 13:32	PA-8260HLW-BTEX(14)
L2314083-14Z	Vial Water preserved split	A	NA		4.0	Y	Absent	18-MAR-23 13:32	PA-8260HLW-BTEX(14)
L2314083-15A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-15B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-16A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-16B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-17A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-17B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-18A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2314083
Report Date: 04/04/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2314083-18B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-19A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-19B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-20A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-20B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-21A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-21B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-22A	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2314083-22B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L2314083-23A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		PB-TI(180)
L2314083-23B	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2314083-24A	Vial HCl preserved	A	NA		4.0	Y	Absent		PA-8260-BTEX(14)
L2314083-24B	Vial HCl preserved	A	NA		4.0	Y	Absent		PA-8260-BTEX(14)
L2314083-24C	Vial HCl preserved	A	NA		4.0	Y	Absent		PA-8260-BTEX(14)
L2314083-24D	Amber 250ml unpreserved	A	7	7	4.0	Y	Absent		PA-8270SIM-LVI(7)
L2314083-24E	Amber 250ml unpreserved	A	7	7	4.0	Y	Absent		PA-8270SIM-LVI(7)
L2314083-24F	Plastic 250ml HNO3 preserved	A	<2	<2	4.0	Y	Absent		PB-6020T-PPB(180)
L2314083-25A	Vial HCl preserved	A	NA		4.0	Y	Absent		PA-8260-BTEX(14)
L2314083-25B	Vial HCl preserved	A	NA		4.0	Y	Absent		PA-8260-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2314083
Project Number:	30108678	**Report Date:**	04/04/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2314083
Project Number:	30108678	**Report Date:**	04/04/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Project Number:	30108678	**Report Date:**	04/04/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2314083
Project Number:	30108678	**Report Date:**	04/04/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
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Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab: 3/18/23

ALPHA Job #: L2314083

Client Information
Client: ARCADIS
Address: 1 Harvard Lane 91st Fl
Hillsborough NJ
Phone: 908-526-1005
Fax:
Email: Larry.Grant@arcadis.com

Project Information
Project Name: Allegiance 91st St
Project Location: Phila, PA
Project #: 30106679
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved): Due Date: # of Days:

Deliverables
- [ ] NJ Full / Reduced
- [ ] EQuIS (1 File)
- [ ] EQuIS (4 File)
- [ ] Other

Billing Information
- [ ] Same as Client Info
PO #

Regulatory Requirement
- [ ] SRS Residential/Non Residential
- [ ] SRS Impact to Groundwater
- [ ] NJ Ground Water Quality Standards
- [ ] NJ IGW SPLP Leachate Criteria
- [ ] Other

Site Information
Is this site impacted by Petroleum? Yes [ ]
Petroleum Product:

These samples have been previously analyzed by Alpha [ ]

For EPH, selection is REQUIRED:
- [ ] Category 1
- [ ] Category 2

For VOC, selection is REQUIRED:
- [ ] 1,4-Dioxane
- [ ] 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Sample Filtration
- [ ] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Lead	Hold Lead	Sample Specific Comments	Total Bottle
14083-01	1040-P3 (9.5-10)	3/17/23	915	SO4	MH	X			9
02	1043-P4 (7.5-8)		945			X			
03	1043-P5 (7.5-8)		950			X			
04	SB-304 (2.5-3)		920			X			
05	SB-304 (7.5-8)		922				X		
06	SB-305 (2.5-3)		935			X			
07	SB-305 (7.5-8)		938				X		
08	SB-306 (2.5-3)		955			X			
09	SB-306 (9.5-8)		957				X		
10	SB-307 (5.5-6)	↓	1127	↓	↓	X			↓

Container Type: A A
Preservative: A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hillwig	3/17/23 1811	STL AAL	3/17/23 1815
STL AAL	3/17/23 1800	[illegible] AAL	3/17/23 1800
[illegible] AAL	3/17/23 2100	AAL	3-17-23 2100
AAL	3-18-23 0120		3/18/23 0120

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTANTS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 4 of 3

Date Rec'd in Lab: 3/18/23

ALPHA Job #: L2314083

Client Information

Client: AFRashis
Address: 1 Herrard Way East
Hillsborough NJ
Phone: 908-937-1000
Fax:
Email: Larry.Grant@arcadis.com

Project Information

Project Name: Allied Gift Grant
Project Location: Phillipsburg NJ
Project #: 30108679
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ 4 day # of Days:

These samples have been previously analyzed by Alpha ☐

Deliverables

☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information

☐ Same as Client Info
PO #

Site Information

Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration

☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Land	Land - Field	RS Ca chlorate and other	Arsenic	Field RS Ca chlorate				Sample Specific Comments	Total Bottle
14083-11	GR-308 (5.5-6)	3/17/23	1120	Soil	MH			X							
12	GR-309 (4.5-5)		1115			X									
13	GR-310 (8.5-9)		1020				X		X						
14	GR-311 (7.5-8)		1030				X		X	X					
15	GR-312 (4.5-5)		1125				X								
16	GR-313 (7.5-8)		1040				X								
17	GR-314 (7.5-8)		1000				X								
18	GR-314 (2.5-3)		1010				X								
19	GR-315 (2.5-3)		935				X								
20	GR-~~315~~ 315 (7.5-8)		945				X								
	Container Type					A	A	A	P						
	Preservative					A	A	A	A						

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilinski	3/17/23 1312	STA AAL	3/17/23 13:15
STA AAL	3/17/23 1800	[illegible] MC	3/17/23 1800
[illegible] MC	3/17/23 2100	MH	3-17-23 2100
MH	3-18-23 0120		3/18/23 0120

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 5

Date Rec'd in Lab: 3/18/23

ALPHA Job #: L2314083

Client Information
Client: Arcadis
Address: 1 Harvard Way Ste 1
Hillsborough NJ
Phone: 908-864-1600
Fax:
Email: Larry.Grant@arcadis.us

Project Information
Project Name: Alkaril 91st Street
Project Location: Phila, Pa
Project #: 30106678
(Use Project name as Project #) ☐
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ 4 day # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Lead	Lead HCl04		Lead	Mercury	Rush CO Chlorinated Pest			Sample Specific Comments	Total Bottle
14083-21	SB-216 (2.5-3)	3/17/23	920	Soil	MY		X								
22	SB-216 (7.5-8)		925				X								
23	DUP-1		X			X									
24	Field Blank		1245	AQ	MN				X	X	X				
25	Rin Blank	3/16/23	—		LL					X					

Container Type	A	A		P	A/C	A		
Preservative	A	A		C	B	A		

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilinski	3/17/23 1314	[illegible] AAL	3/17/23 13:15
[illegible] AAL	3/17/23 1800	[illegible] MAL	3/17/23 1800
[illegible] MAL	3/17/23 2100	KPS	3-17-23 2100
KPS	3-18-23 0120		3/18/23 0120

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2403899
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678
Report Date:	01/31/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2403899
Report Date: 01/31/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2403899-01	SB-308	SOIL	PHILADELPHIA, PA	01/23/24 15:30	01/24/24
L2403899-02	FB (01232024)	WATER	PHILADELPHIA, PA	01/23/24 15:20	01/24/24

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403899
Project Number:	30108678	**Report Date:**	01/31/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403899
Project Number:	30108678	**Report Date:**	01/31/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

L2403899-01D: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

L2403899-01D: The sample has elevated detection limits due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 01/31/24

ORGANICS

SEMIVOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403899
Report Date: 01/31/24

SAMPLE RESULTS

Lab ID: L2403899-01 D
Client ID: SB-308
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 15:30
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 01/29/24 17:25
Analyst: LJG
Percent Solids: 70%

Extraction Method: EPA 3546
Extraction Date: 01/27/24 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Biphenyl	ND		mg/kg	7.6	0.44	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	46		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	40		18-120

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403899
Report Date: 01/31/24

SAMPLE RESULTS

Lab ID: L2403899-02
Client ID: FB (01232024)
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 15:20
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 01/28/24 13:25
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 01/27/24 11:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Biphenyl	ND		ug/l	2.0	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	77		41-149

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403899
Report Date: 01/31/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 01/26/24 13:55
Analyst: LJG

Extraction Method: EPA 3546
Extraction Date: 01/26/24 09:52

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1878504-1					
Biphenyl	ND		mg/kg	0.37	0.021

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	45		30-120
2,4,6-Tribromophenol	43		10-136
4-Terphenyl-d14	45		18-120

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403899
Report Date: 01/31/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 01/28/24 10:22
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 01/27/24 11:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1878855-1					
Biphenyl	ND		ug/l	2.0	0.46

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	55		10-120
4-Terphenyl-d14	73		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2403899

Report Date: 01/31/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1878504-2 WG1878504-3								
Biphenyl	59		57		37-127	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		56		25-120
Phenol-d6	61		58		10-120
Nitrobenzene-d5	61		56		23-120
2-Fluorobiphenyl	55		53		30-120
2,4,6-Tribromophenol	54		52		10-136
4-Terphenyl-d14	52		50		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2403899

Report Date: 01/31/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1878855-2 WG1878855-3								
Biphenyl	61		58		40-140	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54		57		21-120
Phenol-d6	48		47		10-120
Nitrobenzene-d5	58		61		23-120
2-Fluorobiphenyl	58		56		15-120
2,4,6-Tribromophenol	57		55		10-120
4-Terphenyl-d14	61		61		41-149

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403899
Report Date: 01/31/24

SAMPLE RESULTS

Lab ID: L2403899-01
Client ID: SB-308
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 01/23/24 15:30
Date Received: 01/24/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.3		%	0.100	NA	1	-	01/25/24 11:04	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2403899

Report Date: 01/31/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1878030-1 QC Sample: L2404116-01 Client ID: DUP Sample						
Solids, Total	93.9	94.0	%	0		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2403899
Report Date: 01/31/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2403899-01A	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		TS(7),PA-8270(14)
L2403899-01B	Glass 120ml/4oz unpreserved	A	NA		4.3	Y	Absent		TS(7),PA-8270(14)
L2403899-02A	Amber 250ml unpreserved	A	7	7	4.3	Y	Absent		PA-8270-LVI(7)
L2403899-02B	Amber 250ml unpreserved	A	7	7	4.3	Y	Absent		PA-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403899
Project Number:	30108678	**Report Date:**	01/31/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403899
Project Number:	30108678	**Report Date:**	01/31/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403899
Project Number:	30108678	**Report Date:**	01/31/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403899
Project Number:	30108678	**Report Date:**	01/31/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 1/25/24

ALPHA Job #: L2403899

Client Information
Client: Arcadis US Inc
Address: 1 Harvard Way Suite 5, Hillsborough NJ 08844
Phone: 908-526-1000
Fax:
Email: Larry.Brunt@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information
Project Name: Alliance 51st St
Project Location: Philadelphia, PA
Project #: 30108678
Project Manager: Larry Brunt
ALPHA Quote #:

Turn-Around Time
☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables
☑ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information
☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Biphenyl

SAMPLE HANDLING
Filtration
☐ Done
☑ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Biphenyl	Sample Specific Comments	TOTAL # BOTTLES
03899-01	SB-308	1/23/24	15:30	Soil	RP	X		
02	FB(01232024)	1/23/24	15:20	AQ	RP	X		

Container Type	A
Preservative	A

Relinquished By:	Date/Time	Received By:	Date/Time
Trinity Rammos	1/23/24 15:45		1-24-24 1030
	1-24-24 1600		1/24 9:20
	1/24		1/24 22:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L2423395
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678
Report Date:	05/13/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2423395
Report Date: 05/13/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2423395-01	SW-1	WATER	PHILADELPHIA, PA	04/29/24 06:50	04/29/24
L2423395-02	SED-1	SOIL	PHILADELPHIA, PA	04/29/24 07:00	04/29/24

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2423395
Project Number:	30108678	**Report Date:**	05/13/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2423395
Project Number:	30108678	**Report Date:**	05/13/24

Case Narrative (continued)

Report Submission

May 13, 2024: This final report includes the results of all requested analyses.

May 06, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 05/13/24

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2423395

Project Number: 30108678 **Report Date:** 05/13/24

SAMPLE RESULTS

Lab ID: L2423395-01 Date Collected: 04/29/24 06:50
Client ID: SW-1 Date Received: 04/29/24
Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/02/24 10:28
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	8.6		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2423395

Project Number: 30108678 **Report Date:** 05/13/24

SAMPLE RESULTS

Lab ID: L2423395-01 Date Collected: 04/29/24 06:50

Client ID: SW-1 Date Received: 04/29/24

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	114		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

SAMPLE RESULTS

Lab ID: L2423395-01
Client ID: SW-1
Sample Location: PHILADELPHIA, PA

Date Collected: 04/29/24 06:50
Date Received: 04/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/02/24 10:28
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
4-Bromofluorobenzene	101		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/02/24 06:48
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1916175-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2423395

Project Number: 30108678 **Report Date:** 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/02/24 06:48
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1916175-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/02/24 06:48
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1916175-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	118		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2423395

Project Number: 30108678 **Report Date:** 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/02/24 06:48
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1916591-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
4-Bromofluorobenzene	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2423395

Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1916175-3 WG1916175-4								
Dichlorodifluoromethane	82		83		36-147	1		20
Chloromethane	100		100		64-130	0		20
Vinyl chloride	77		78		55-140	1		20
Bromomethane	53		58		39-139	9		20
Chloroethane	71		68		55-138	4		20
Trichlorofluoromethane	97		97		62-150	0		20
1,1-Dichloroethene	95		100		61-145	5		20
Carbon disulfide	100		100		51-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		100		70-130	0		20
Methylene chloride	100		100		70-130	0		20
Acetone	110		110		58-148	0		20
trans-1,2-Dichloroethene	97		100		70-130	3		20
Methyl Acetate	96		100		70-130	4		20
Methyl tert butyl ether	89		90		63-130	1		20
1,1-Dichloroethane	110		110		70-130	0		20
cis-1,2-Dichloroethene	96		100		70-130	4		20
Cyclohexane	110		110		70-130	0		20
Bromochloromethane	98		99		70-130	1		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	94		94		63-132	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
2-Butanone	120		100		63-138	18		20
Benzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2423395
Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1916175-3 WG1916175-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	89		89		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Bromodichloromethane	98		100		67-130	2		20
cis-1,3-Dichloropropene	94		95		70-130	1		20
Toluene	100		100		70-130	0		20
Tetrachloroethene	98		100		70-130	2		20
4-Methyl-2-pentanone	89		90		59-130	1		20
trans-1,3-Dichloropropene	91		92		70-130	1		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Dibromochloromethane	93		94		63-130	1		20
1,2-Dibromoethane	99		100		70-130	1		20
2-Hexanone	95		93		57-130	2		20
Chlorobenzene	98		99		75-130	1		20
Ethylbenzene	100		100		70-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		95		70-130	0		20
Styrene	95		95		70-130	0		20
Bromoform	87		87		54-136	0		20
Isopropylbenzene	97		97		70-130	0		20
1,3-Dichlorobenzene	98		95		70-130	3		20
1,4-Dichlorobenzene	97		96		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2423395

Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1916175-3 WG1916175-4								
1,2-Dichlorobenzene	98		94		70-130	4		20
1,2-Dibromo-3-chloropropane	90		86		41-144	5		20
1,2,4-Trichlorobenzene	89		90		70-130	1		20
1,2,3-Trichlorobenzene	93		92		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		96		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	105		101		70-130
Dibromofluoromethane	101		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2423395

Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1916591-3 WG1916591-4								
1,4-Dioxane	100		100		70-130	0		25
1,1,2,2-Tetrachloroethane	112		112		70-130	0		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		117		70-130
4-Bromofluorobenzene	102		102		70-130

SEMIVOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

SAMPLE RESULTS

Lab ID: L2423395-01
Client ID: SW-1
Sample Location: PHILADELPHIA, PA

Date Collected: 04/29/24 06:50
Date Received: 04/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 05/05/24 16:05
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 05/04/24 04:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		ug/l	5.0	0.53	1
Phenol	ND		ug/l	5.0	0.57	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Acetophenone	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
Nitrobenzene	ND		ug/l	1.4	0.77	1
Isophorone	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	5.0	0.85	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
Naphthalene	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	3.7	1.1	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Caprolactam	ND		ug/l	10	3.3	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.44	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Biphenyl	ND		ug/l	2.0	0.46	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2423395

Project Number: 30108678 **Report Date:** 05/13/24

SAMPLE RESULTS

Lab ID: L2423395-01 Date Collected: 04/29/24 06:50

Client ID: SW-1 Date Received: 04/29/24

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		ug/l	2.0	0.46	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
Acenaphthene	ND		ug/l	2.0	0.53	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Fluorene	ND		ug/l	2.0	0.41	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Atrazine	ND		ug/l	3.0	0.76	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Anthracene	ND		ug/l	2.0	0.33	1
Carbazole	ND		ug/l	2.0	0.49	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Fluoranthene	ND		ug/l	2.0	0.26	1
Pyrene	ND		ug/l	2.0	0.28	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
Chrysene	ND		ug/l	1.4	0.34	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	98		10-120
4-Terphenyl-d14	80		41-149

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

SAMPLE RESULTS

Lab ID: L2423395-01
Client ID: SW-1
Sample Location: PHILADELPHIA, PA

Date Collected: 04/29/24 06:50
Date Received: 04/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/04/24 19:48
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 05/04/24 04:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02	1
n-Nitrosodi-n-propylamine	ND		ug/l	0.10	0.01	1
Hexachloroethane	ND		ug/l	0.20	0.06	1
Hexachlorobenzene	ND		ug/l	0.02	0.01	1
Pentachlorophenol	ND		ug/l	0.10	0.01	1
Benzo(a)anthracene	ND		ug/l	0.05	0.02	1
Bis(2-ethylhexyl)phthalate	0.56	J	ug/l	1.0	0.51	1
Benzo(b)fluoranthene	0.01	J	ug/l	0.05	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	ND		ug/l	0.05	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	**123**	Q	10-120
4-Terphenyl-d14	66		41-149

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/05/24 12:04
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 05/04/24 04:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1916985-1					
Benzaldehyde	ND		ug/l	5.0	0.53
Phenol	ND		ug/l	5.0	0.57
2-Chlorophenol	ND		ug/l	2.0	0.48
2-Methylphenol	ND		ug/l	5.0	0.49
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Acetophenone	ND		ug/l	5.0	0.53
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
Nitrobenzene	ND		ug/l	1.4	0.77
Isophorone	ND		ug/l	5.0	1.2
2-Nitrophenol	ND		ug/l	5.0	0.85
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
Naphthalene	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	3.7	1.1
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Caprolactam	ND		ug/l	10	3.3
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Methylnaphthalene	ND		ug/l	2.0	0.45
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.44
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Biphenyl	ND		ug/l	2.0	0.46
2-Chloronaphthalene	ND		ug/l	2.0	0.44
2-Nitroaniline	ND		ug/l	5.0	0.50
Dimethyl phthalate	ND		ug/l	5.0	1.8
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Acenaphthylene	ND		ug/l	2.0	0.46

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/05/24 12:04
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 05/04/24 04:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1916985-1					
3-Nitroaniline	ND		ug/l	5.0	0.81
Acenaphthene	ND		ug/l	2.0	0.53
2,4-Dinitrophenol	ND		ug/l	20	6.6
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
Dibenzofuran	ND		ug/l	2.0	0.50
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84
Diethyl phthalate	ND		ug/l	5.0	0.38
Fluorene	ND		ug/l	2.0	0.41
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Nitroaniline	ND		ug/l	5.0	0.80
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
NDPA/DPA	ND		ug/l	2.0	0.42
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Atrazine	ND		ug/l	3.0	0.76
Phenanthrene	ND		ug/l	2.0	0.33
Anthracene	ND		ug/l	2.0	0.33
Carbazole	ND		ug/l	2.0	0.49
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Fluoranthene	ND		ug/l	2.0	0.26
Pyrene	ND		ug/l	2.0	0.28
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
Chrysene	ND		ug/l	1.4	0.34
Di-n-octylphthalate	ND		ug/l	5.0	1.3

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/05/24 12:04
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 05/04/24 04:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1916985-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	78		41-149

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 05/04/24 17:35
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 05/04/24 04:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1916986-1					
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02
n-Nitrosodi-n-propylamine	ND		ug/l	0.10	0.01
Hexachloroethane	ND		ug/l	0.20	0.06
Hexachlorobenzene	0.02	J	ug/l	0.02	0.01
Pentachlorophenol	0.07	J	ug/l	0.10	0.01
Benzo(a)anthracene	ND		ug/l	0.05	0.02
Bis(2-ethylhexyl)phthalate	ND		ug/l	1.0	0.51
Benzo(b)fluoranthene	0.02	J	ug/l	0.05	0.01
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Indeno(1,2,3-cd)pyrene	0.01	J	ug/l	0.10	0.01
Dibenzo(a,h)anthracene	0.01	J	ug/l	0.05	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	109		10-120
4-Terphenyl-d14	67		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2423395
Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1916985-2 WG1916985-3								
Benzaldehyde	**143**	Q	**151**	Q	40-140	5		30
Phenol	52		58		12-110	11		30
2-Chlorophenol	78		83		27-123	6		30
2-Methylphenol	73		82		30-130	12		30
Bis(2-chloroisopropyl)ether	69		74		40-140	7		30
Acetophenone	74		81		39-129	9		30
3-Methylphenol/4-Methylphenol	75		84		30-130	11		30
Nitrobenzene	76		83		40-140	9		30
Isophorone	77		85		40-140	10		30
2-Nitrophenol	79		88		30-130	11		30
2,4-Dimethylphenol	86		94		30-130	9		30
Bis(2-chloroethoxy)methane	77		83		40-140	8		30
2,4-Dichlorophenol	77		88		30-130	13		30
Naphthalene	65		74		40-140	13		30
4-Chloroaniline	69		79		40-140	14		30
Hexachlorobutadiene	68		76		40-140	11		30
Caprolactam	36		47		10-130	27		30
p-Chloro-m-cresol	73		92		23-97	23		30
2-Methylnaphthalene	67		76		40-140	13		30
Hexachlorocyclopentadiene	71		85		40-140	18		30
1,2,4,5-Tetrachlorobenzene	70		80		2-134	13		30
2,4,6-Trichlorophenol	70		88		30-130	23		30
2,4,5-Trichlorophenol	73		90		30-130	21		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2423395

Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1916985-2 WG1916985-3								
Biphenyl	68		79		40-140	15		30
2-Chloronaphthalene	69		79		40-140	14		30
2-Nitroaniline	79		94		52-143	17		30
Dimethyl phthalate	73		90		40-140	21		30
2,6-Dinitrotoluene	80		93		40-140	15		30
Acenaphthylene	65		79		45-123	19		30
3-Nitroaniline	70		85		25-145	19		30
Acenaphthene	68		83		37-111	20		30
2,4-Dinitrophenol	80		92		20-130	14		30
4-Nitrophenol	77		**97**	Q	10-80	23		30
2,4-Dinitrotoluene	74		91		48-143	21		30
Dibenzofuran	71		82		40-140	14		30
2,3,4,6-Tetrachlorophenol	79		97		54-145	20		30
Diethyl phthalate	76		95		40-140	22		30
Fluorene	68		84		40-140	21		30
4-Chlorophenyl phenyl ether	66		83		40-140	23		30
4-Nitroaniline	70		89		51-143	24		30
4,6-Dinitro-o-cresol	80		98		20-164	20		30
NDPA/DPA	72		87		40-140	19		30
4-Bromophenyl phenyl ether	71		89		40-140	23		30
Atrazine	84		103		40-140	20		30
Phenanthrene	67		83		40-140	21		30
Anthracene	69		86		40-140	22		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2423395

Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1916985-2 WG1916985-3								
Carbazole	68		86		55-144	23		30
Di-n-butylphthalate	77		100		40-140	26		30
Fluoranthene	67		83		40-140	21		30
Pyrene	67		85		26-127	24		30
Butyl benzyl phthalate	77		97		40-140	23		30
3,3'-Dichlorobenzidine	68		82		40-140	19		30
Chrysene	68		79		40-140	15		30
Di-n-octylphthalate	77		92		40-140	18		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		71		21-120
Phenol-d6	54		62		10-120
Nitrobenzene-d5	78		83		23-120
2-Fluorobiphenyl	66		81		15-120
2,4,6-Tribromophenol	78		99		10-120
4-Terphenyl-d14	64		80		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1916986-2 WG1916986-3								
Bis(2-chloroethyl)ether	66		73		40-140	10		40
n-Nitrosodi-n-propylamine	81		92		40-140	13		40
Hexachloroethane	69		78		40-140	12		40
Hexachlorobenzene	86		98		40-140	13		40
Pentachlorophenol	92		**109**	Q	9-103	17		40
Benzo(a)anthracene	89		103		40-140	15		40
Bis(2-ethylhexyl)phthalate	112		140		40-140	22		40
Benzo(b)fluoranthene	76		87		40-140	13		40
Benzo(k)fluoranthene	74		82		40-140	10		40
Benzo(a)pyrene	74		84		40-140	13		40
Indeno(1,2,3-cd)pyrene	75		88		40-140	16		40
Dibenzo(a,h)anthracene	68		79		40-140	15		40
Benzo(ghi)perylene	67		79		40-140	16		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		70		21-120
Phenol-d6	54		61		10-120
Nitrobenzene-d5	78		89		23-120
2-Fluorobiphenyl	62		70		15-120
2,4,6-Tribromophenol	98		116		10-120
4-Terphenyl-d14	51		58		41-149

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2423395
Report Date: 05/13/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2423395-01A	Vial HCl preserved	A	NA		2.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2423395-01B	Vial HCl preserved	A	NA		2.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2423395-01C	Vial HCl preserved	A	NA		2.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2423395-01D	Amber 250ml unpreserved	A	9	9	2.7	Y	Absent		PA-8270SIM-LVI(7),PA-8270-LVI(7)
L2423395-01E	Amber 250ml unpreserved	A	10	10	2.7	Y	Absent		PA-8270SIM-LVI(7),PA-8270-LVI(7)
L2423395-02A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L2423395-02B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L2423395-02C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L2423395-02D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		-
L2423395-02E	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		HOLD-WETCHEM()
L2423395-02F	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L2423395-02X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L2423395-02X1	Vial unpreserved Extracts	A	NA		2.7	Y	Absent		-
L2423395-02Y	Vial Water preserved split	A	NA		2.7	Y	Absent	30-APR-24 13:35	HOLD-8260HLW(14)
L2423395-02Z	Vial Water preserved split	A	NA		2.7	Y	Absent	30-APR-24 13:35	HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2423395
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GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2423395
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REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/30/24

ALPHA Job #: L2423395

Client Information
Client: Arcadis
Address: 1 Hartford Way Ste 5 Willingboro #3
Phone: 908-928-1000
Fax:
Email: larry.bint@arcadis.com

Project Information
Project Name: Allynce Site
Project Location: Philly, PA
Project #: 30108678
(Use Project name as Project #)
Project Manager: Larry Bint
ALPHAQuote #:

Turn-Around Time
Standard
Rush (only if pre approved)
Due Date:
# of Days:

Deliverables
NJ Full / Reduced
EQuIS (1 File) EQuIS (4 File)
Other

Regulatory Requirement
SRS Residential/Non Residential
SRS Impact to Groundwater
NJ Ground Water Quality Standards
NJ IGW SPLP Leachate Criteria
Other

Billing Information
Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
Category 1
Category 2

For VOC, selection is REQUIRED:
1,4-Dioxane
8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC + 10	SVOC	Hold	Total # Bottles	Sample Specific Comments
23395-01	GW-1	4/29/24	0650	AQ	MH	X	X		6	
-02	Grab-1	4/29/24	0700	Soil	MH			X	1	Hold

Container Type: A A
Preservative: B A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Mark Hilliard	4/29/24 1640	Alicia A. AAL	4/29/24 16:30
Alicia A. AAL	4/29/24 18:58		4/29/24 18:55
	4/29/24	AM	4/29 22:00
AM	4/30 1:00		4/30/24 0102

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTITUTIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2429996
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678.03C
Report Date:	06/04/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429996
Report Date: 06/04/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2429996-01	SB-206 (3-3.5)	SOIL	PHILA., PA	05/30/24 09:30	05/30/24
L2429996-02	SB-209 (4.5-5)	SOIL	PHILA., PA	05/30/24 10:05	05/30/24
L2429996-03	SB-216 (4.5-5)	SOIL	PHILA., PA	05/30/24 11:00	05/30/24
L2429996-04	SB-501 (4.5-5)	SOIL	PHILA., PA	05/30/24 11:05	05/30/24
L2429996-05	SB-502 (4.5-5)	SOIL	PHILA., PA	05/30/24 11:25	05/30/24
L2429996-06	SB-503 (6-6.5)	SOIL	PHILA., PA	05/30/24 11:50	05/30/24
L2429996-07	SB-504 (8-8.5)	SOIL	PHILA., PA	05/30/24 13:10	05/30/24
L2429996-08	DUP-1	SOIL	PHILA., PA	05/30/24 00:00	05/30/24

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2429996
Project Number:	30108678.03C	**Report Date:**	06/04/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2429996
Project Number:	30108678.03C	**Report Date:**	06/04/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2429996-01 through -08: The sample has an elevated detection limit due to the dilution required by the sample matrix.

The WG1928973-3 MS recovery for chromium (0%), performed on L2429996-01, does not apply because the sample concentration is greater than four times the spike amount added.

Hexavalent Chromium

The WG1928798-4 Insoluble MS recovery for chromium, hexavalent (0%), performed on L2429996-01, is outside the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (0%) was also outside criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 0%.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Caitlin Walukevich

Title: Technical Director/Representative

Date: 06/04/24

METALS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-01
Client ID: SB-206 (3-3.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil
Percent Solids: 61%

Date Collected: 05/30/24 09:30
Date Received: 05/30/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	27100		mg/kg	6.20	0.595	10	06/04/24 03:31	06/04/24 09:48	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-02
Client ID: SB-209 (4.5-5)
Sample Location: PHILA., PA
Date Collected: 05/30/24 10:05
Date Received: 05/30/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 52%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	22700		mg/kg	7.50	0.720	10	06/04/24 03:31	06/04/24 09:28	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-03
Client ID: SB-216 (4.5-5)
Sample Location: PHILA., PA
Date Collected: 05/30/24 11:00
Date Received: 05/30/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 56%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	23100		mg/kg	7.03	0.675	10	06/04/24 03:31	06/04/24 09:35	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-04
Client ID: SB-501 (4.5-5)
Sample Location: PHILA., PA
Date Collected: 05/30/24 11:05
Date Received: 05/30/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 57%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	17500		mg/kg	6.90	0.662	10	06/04/24 03:31	06/04/24 09:41	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-05
Client ID: SB-502 (4.5-5)
Sample Location: PHILA., PA
Date Collected: 05/30/24 11:25
Date Received: 05/30/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 58%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	28100		mg/kg	6.89	0.662	10	06/04/24 03:31	06/04/24 10:55	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-06
Client ID: SB-503 (6-6.5)
Sample Location: PHILA., PA
Date Collected: 05/30/24 11:50
Date Received: 05/30/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	230		mg/kg	1.05	0.101	2	06/04/24 03:31	06/04/24 11:01	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-07
Client ID: SB-504 (8-8.5)
Sample Location: PHILA., PA
Date Collected: 05/30/24 13:10
Date Received: 05/30/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	987		mg/kg	1.02	0.098	2	06/04/24 03:31	06/04/24 11:08	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-08
Client ID: DUP-1
Sample Location: PHILA., PA
Date Collected: 05/30/24 00:00
Date Received: 05/30/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 61%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	27300		mg/kg	6.54	0.628	10	06/04/24 03:31	06/04/24 11:15	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1928973-1										
Chromium, Total	0.325	J	mg/kg	0.400	0.038	1	06/04/24 03:31	06/04/24 09:15	1,6010D	DMC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2429996

Report Date: 06/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1928973-2								
Chromium, Total	101		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429996
Report Date: 06/04/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1928973-3 QC Sample: L2429996-01 Client ID: SB-206 (3-3.5)												
Chromium, Total	27100	24.8	25400	**0**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2429996

Report Date: 06/04/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1928973-4 QC Sample: L2429996-01 Client ID: SB-206 (3-3.5)						
Chromium, Total	27100	24200	mg/kg	11		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-01
Client ID: SB-206 (3-3.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 05/30/24 09:30
Date Received: 05/30/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.0		%	0.100	NA	1	-	05/31/24 08:55	121,2540G	ROI
Chromium, Hexavalent	27900		mg/kg	1310	262.	1000	06/03/24 09:12	06/04/24 09:18	1,7196A	DTH
Chromium, SPLP Hexavalent	58.8		mg/l	5.00	1.50	500	06/02/24 13:00	06/02/24 13:18	1,7196A	MRM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-02
Client ID: SB-209 (4.5-5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 05/30/24 10:05
Date Received: 05/30/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	51.8		%	0.100	NA	1	-	05/31/24 08:55	121,2540G	ROI
Chromium, Hexavalent	11300		mg/kg	1540	309.	1000	06/03/24 09:12	06/04/24 09:18	1,7196A	DTH
Chromium, SPLP Hexavalent	14.4		mg/l	2.00	0.600	200	06/02/24 13:00	06/02/24 13:18	1,7196A	MRM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-03
Client ID: SB-216 (4.5-5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 05/30/24 11:00
Date Received: 05/30/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	55.6		%	0.100	NA	1	-	05/31/24 08:55	121,2540G	ROI
Chromium, Hexavalent	15000		mg/kg	1440	288.	1000	06/03/24 09:12	06/04/24 09:18	1,7196A	DTH
Chromium, SPLP Hexavalent	38.3		mg/l	5.00	1.50	500	06/02/24 13:00	06/02/24 13:19	1,7196A	MRM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-04
Client ID: SB-501 (4.5-5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 05/30/24 11:05
Date Received: 05/30/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	56.6		%	0.100	NA	1	-	05/31/24 08:55	121,2540G	ROI
Chromium, Hexavalent	5010		mg/kg	1410	283.	1000	06/03/24 09:12	06/04/24 09:18	1,7196A	DTH

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-05
Client ID: SB-502 (4.5-5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 05/30/24 11:25
Date Received: 05/30/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	57.8		%	0.100	NA	1	-	05/31/24 08:55	121,2540G	ROI
Chromium, Hexavalent	12300		mg/kg	1380	277.	1000	06/03/24 09:12	06/04/24 09:18	1,7196A	DTH

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-06
Client ID: SB-503 (6-6.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 05/30/24 11:50
Date Received: 05/30/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.0		%	0.100	NA	1	-	05/31/24 08:55	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.08	0.216	1	06/03/24 09:12	06/04/24 09:18	1,7196A	DTH

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-07
Client ID: SB-504 (8-8.5)
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 05/30/24 13:10
Date Received: 05/30/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.1		%	0.100	NA	1	-	05/31/24 08:55	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.06	0.213	1	06/03/24 09:12	06/04/24 09:18	1,7196A	DTH

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429996-08
Client ID: DUP-1
Sample Location: PHILA., PA
Sample Depth:
Matrix: Soil

Date Collected: 05/30/24 00:00
Date Received: 05/30/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.6		%	0.100	NA	1	-	05/31/24 08:55	121,2540G	ROI
Chromium, Hexavalent	9060		mg/kg	1320	264.	1000	06/03/24 09:12	06/04/24 09:18	1,7196A	DTH
Chromium, SPLP Hexavalent	55.9		mg/l	5.00	1.50	500	06/02/24 13:00	06/02/24 13:19	1,7196A	MRM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429996
Report Date: 06/04/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03,08 Batch: WG1928661-1										
Chromium, SPLP Hexavalent	ND		mg/l	0.010	0.003	1	06/02/24 13:00	06/02/24 13:17	1,7196A	MRM
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1928798-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	06/03/24 09:12	06/04/24 09:18	1,7196A	DTH

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2429996

Report Date: 06/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03,08 Batch: WG1928661-2								
Chromium, SPLP Hexavalent	102		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1928798-2								
Chromium, Hexavalent	96		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429996
Report Date: 06/04/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03,08 QC Batch ID: WG1928661-4 QC Sample: L2429996-08 Client ID: DUP-1												
Chromium, SPLP Hexavalent	55.9	50	102	92		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1928798-4 QC Sample: L2429996-01 Client ID: SB-206 (3-3.5)												
Chromium, Hexavalent	27900	1950	25500	**0**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429996
Report Date: 06/04/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1928021-1 QC Sample: L2429822-01 Client ID: DUP Sample						
Solids, Total	81.6	81.9	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,08 QC Batch ID: WG1928661-3 QC Sample: L2429996-08 Client ID: DUP-1						
Chromium, SPLP Hexavalent	55.9	54.5	mg/l	3		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1928798-6 QC Sample: L2429996-01 Client ID: SB-206 (3-3.5)						
Chromium, Hexavalent	27900	26400	mg/kg	6		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429996
Report Date: 06/04/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2429996-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		CR-TI(180)
L2429996-01B	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		TS(7),HEXCR-7196(30)
L2429996-01C	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		HEXCR-7196(30)
L2429996-01D	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HEXCR-7196(30)
L2429996-01X	Plastic 250ml unpreserved Extracts	A	NA		3.6	Y	Absent		SPLP-HEXCR(14)
L2429996-01X9	Tumble Vessel	A	NA		3.6	Y	Absent		-
L2429996-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		CR-TI(180)
L2429996-02B	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		TS(7),HEXCR-7196(30)
L2429996-02C	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		HEXCR-7196(30)
L2429996-02D	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HEXCR-7196(30)
L2429996-02X	Plastic 250ml unpreserved Extracts	A	NA		3.6	Y	Absent		SPLP-HEXCR(14)
L2429996-02X9	Tumble Vessel	A	NA		3.6	Y	Absent		-
L2429996-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		CR-TI(180)
L2429996-03B	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		TS(7),HEXCR-7196(30)
L2429996-03C	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		HEXCR-7196(30)
L2429996-03D	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HEXCR-7196(30)
L2429996-03X	Plastic 250ml unpreserved Extracts	A	NA		3.6	Y	Absent		SPLP-HEXCR(14)
L2429996-03X9	Tumble Vessel	A	NA		3.6	Y	Absent		-
L2429996-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		CR-TI(180)
L2429996-04B	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		TS(7),HEXCR-7196(30)
L2429996-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		CR-TI(180)
L2429996-05B	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429996
Report Date: 06/04/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2429996-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		CR-TI(180)
L2429996-06B	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		TS(7),HEXCR-7196(30)
L2429996-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		CR-TI(180)
L2429996-07B	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		TS(7),HEXCR-7196(30)
L2429996-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		CR-TI(180)
L2429996-08B	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		TS(7),HEXCR-7196(30)
L2429996-08C	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		HEXCR-7196(30)
L2429996-08D	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HEXCR-7196(30)
L2429996-08X	Plastic 250ml unpreserved Extracts	A	NA		3.6	Y	Absent		SPLP-HEXCR(14)
L2429996-08X9	Tumble Vessel	A	NA		3.6	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2429996
Project Number:	30108678.03C	**Report Date:**	06/04/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2429996
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2429996
Project Number:	30108678.03C	**Report Date:**	06/04/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2429996
Project Number:	30108678.03C	**Report Date:**	06/04/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 5/31/24

ALPHA Job #: L2429996

Client Information

Client: Arcadis
Address: 1 Hartford Way Ste 5
Willingboro NJ
Phone: 908-938-6201
Fax: Matthias.Kirchner@arcadis.com
Email: Larry.Grant@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance St
Project Location: Phila, PA
Project #: 30108678.03C
Project Manager: Larry Grant
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due: 3 day Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: HAA CC	TCL CC	SPLP HAA, CC, TCL CC	SAMPLE HANDLING	Sample Specific Comments	TOTAL # BOTTLES
~~29996~~-01	SB-206 (3-3.5)	5/30	0930	Soil	RP, SK	X	X	X			
29996-02	SB-209 (4.5-5)		1005			X	X	X			
03	SB-216 (4.5-5)		1100			X	X	X			
04	SB-501 (4.5-5)		1105			X	X				
05	SB-502 (4-4.5)		1125			X	X				
06	SB-503 (6-6.5)		1150			X	X				
07	SB-504 (8-8.5)		1310			X	X				
08	DUP-1					X	X	X			

MK 5/31

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	5/30/24 1635		5/30/24 1635
	5/30/24 1800		5/30/24 1800
	5/30/24 2100	Anthony Green	MAY 30 2024 2215
Anthony Green	5/31/24 0200		5/31/24 0200

5/31/24 0405
5/31/24 0405

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L2432189
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLISURE 51ST ST
Project Number:	30108678
Report Date:	06/12/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: ALLISURE 51ST ST
Project Number: 30108678

Lab Number: L2432189
Report Date: 06/12/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2432189-01	SB-505_9.5-10	SOIL	PHILA PA	06/07/24 10:23	06/07/24
L2432189-02	SB-506_9.5-10	SOIL	PHILA PA	06/07/24 10:00	06/07/24
L2432189-03	SB-507_14.5-15	SOIL	PHILA PA	06/07/24 14:09	06/07/24
L2432189-04	SB-508_14.5-15	SOIL	PHILA PA	06/07/24 11:21	06/07/24
L2432189-05	SB-509_9.5-10	SOIL	PHILA PA	06/07/24 11:50	06/07/24
L2432189-06	SB-511_9.5-10	SOIL	PHILA PA	06/07/24 13:02	06/07/24
L2432189-07	SB-511_11-11.5	SOIL	PHILA PA	06/07/24 13:04	06/07/24
L2432189-08	SB-512_9.5-10	SOIL	PHILA PA	06/07/24 11:32	06/07/24
L2432189-09	SB-513_9.5-10	SOIL	PHILA PA	06/07/24 14:02	06/07/24
L2432189-10	SB-514_9.5-10	SOIL	PHILA PA	06/07/24 14:15	06/07/24
L2432189-11	DUP-SOIL	SOIL	PHILA PA	06/07/24 00:00	06/07/24
L2432189-12	SB-510_8.5-9	SOIL	PHILA PA	06/07/24 11:58	06/07/24

Project Name:	ALLISURE 51ST ST	**Lab Number:**	L2432189
Project Number:	30108678	**Report Date:**	06/12/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLISURE 51ST ST	**Lab Number:**	L2432189
Project Number:	30108678	**Report Date:**	06/12/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2432189-01 through -12: The sample has an elevated detection limit due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 06/12/24

METALS

Project Name: ALLISURE 51ST ST
Lab Number: L2432189
Project Number: 30108678
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-01
Client ID: SB-505_9.5-10
Sample Location: PHILA PA
Date Collected: 06/07/24 10:23
Date Received: 06/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	193		mg/kg	0.940	0.090	2	06/11/24 08:10	06/11/24 14:53	EPA 3050B	1,6010D	HJM

Project Name: ALLISURE 51ST ST
Lab Number: L2432189
Project Number: 30108678
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-02
Client ID: SB-506_9.5-10
Sample Location: PHILA PA
Date Collected: 06/07/24 10:00
Date Received: 06/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	11.9		mg/kg	1.13	0.109	2	06/11/24 08:10	06/11/24 14:58	EPA 3050B	1,6010D	HJM

Project Name: ALLISURE 51ST ST
Lab Number: L2432189
Project Number: 30108678
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-03
Client ID: SB-507_14.5-15
Sample Location: PHILA PA
Date Collected: 06/07/24 14:09
Date Received: 06/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	25.4		mg/kg	0.830	0.080	2	06/11/24 08:10	06/11/24 15:04	EPA 3050B	1,6010D	HJM

Project Name: ALLISURE 51ST ST
Lab Number: L2432189
Project Number: 30108678
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-04
Client ID: SB-508_14.5-15
Sample Location: PHILA PA
Date Collected: 06/07/24 11:21
Date Received: 06/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	44.7		mg/kg	1.02	0.098	2	06/11/24 08:10	06/11/24 15:09	EPA 3050B	1,6010D	HJM

Project Name: ALLISURE 51ST ST
Lab Number: L2432189
Project Number: 30108678
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-05
Client ID: SB-509_9.5-10
Sample Location: PHILA PA
Date Collected: 06/07/24 11:50
Date Received: 06/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	24.9		mg/kg	0.974	0.094	2	06/11/24 08:10	06/11/24 15:15	EPA 3050B	1,6010D	HJM

Project Name: ALLISURE 51ST ST
Lab Number: L2432189
Project Number: 30108678
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-06
Client ID: SB-511_9.5-10
Sample Location: PHILA PA
Date Collected: 06/07/24 13:02
Date Received: 06/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	50.8		mg/kg	0.899	0.086	2	06/11/24 08:10	06/11/24 15:31	EPA 3050B	1,6010D	HJM

Project Name: ALLISURE 51ST ST
Lab Number: L2432189
Project Number: 30108678
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-07
Client ID: SB-511_11-11.5
Sample Location: PHILA PA
Date Collected: 06/07/24 13:04
Date Received: 06/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 61%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	20300		mg/kg	12.8	1.23	20	06/11/24 08:10	06/11/24 16:49	EPA 3050B	1,6010D	HJM

Project Name: ALLISURE 51ST ST
Lab Number: L2432189
Project Number: 30108678
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-08
Client ID: SB-512_9.5-10
Sample Location: PHILA PA
Date Collected: 06/07/24 11:32
Date Received: 06/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	24.3		mg/kg	0.922	0.089	2	06/11/24 08:10	06/11/24 15:43	EPA 3050B	1,6010D	HJM

Project Name: ALLISURE 51ST ST
Lab Number: L2432189
Project Number: 30108678
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-09
Client ID: SB-513_9.5-10
Sample Location: PHILA PA
Date Collected: 06/07/24 14:02
Date Received: 06/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 53%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	150		mg/kg	1.47	0.141	2	06/11/24 08:10	06/11/24 15:48	EPA 3050B	1,6010D	HJM

Project Name: ALLISURE 51ST ST
Lab Number: L2432189
Project Number: 30108678
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-10
Client ID: SB-514_9.5-10
Sample Location: PHILA PA
Date Collected: 06/07/24 14:15
Date Received: 06/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	9.02		mg/kg	1.02	0.098	2	06/11/24 08:10	06/11/24 16:00	EPA 3050B	1,6010D	HJM

Project Name: ALLISURE 51ST ST
Lab Number: L2432189
Project Number: 30108678
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-11
Client ID: DUP-SOIL
Sample Location: PHILA PA
Date Collected: 06/07/24 00:00
Date Received: 06/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	16.4		mg/kg	0.969	0.093	2	06/11/24 08:10	06/11/24 16:05	EPA 3050B	1,6010D	HJM

Project Name: ALLISURE 51ST ST
Lab Number: L2432189
Project Number: 30108678
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-12
Client ID: SB-510_8.5-9
Sample Location: PHILA PA
Date Collected: 06/07/24 11:58
Date Received: 06/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	28.6		mg/kg	0.840	0.081	2	06/11/24 08:10	06/11/24 16:10	EPA 3050B	1,6010D	HJM

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1932119-1										
Chromium, Total	ND		mg/kg	0.400	0.038	1	06/11/24 08:10	06/11/24 10:17	1,6010D	DHL

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLISURE 51ST ST

Project Number: 30108678

Lab Number: L2432189

Report Date: 06/12/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1932119-2								
Chromium, Total	102		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLISURE 51ST ST
Project Number: 30108678

Lab Number: L2432189
Report Date: 06/12/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1932119-3 QC Sample: L2430755-01 Client ID: MS Sample												
Chromium, Total	7.39	15.9	20.8	84		-	-		75-125	-		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-01
Client ID: SB-505_9.5-10
Sample Location: PHILA PA
Sample Depth:
Matrix: Soil
Date Collected: 06/07/24 10:23
Date Received: 06/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	06/08/24 13:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.988	0.198	1	06/10/24 08:24	06/12/24 12:32	1,7196A	DTH

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-02
Client ID: SB-506_9.5-10
Sample Location: PHILA PA
Sample Depth:
Matrix: Soil
Date Collected: 06/07/24 10:00
Date Received: 06/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.6		%	0.100	NA	1	-	06/08/24 13:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.20	0.240	1	06/10/24 08:24	06/12/24 12:32	1,7196A	DTH

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-03
Client ID: SB-507_14.5-15
Sample Location: PHILA PA
Sample Depth:
Matrix: Soil
Date Collected: 06/07/24 14:09
Date Received: 06/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.7		%	0.100	NA	1	-	06/08/24 13:03	121,2540G	ROI
Chromium, Hexavalent	0.216	J	mg/kg	0.863	0.172	1	06/10/24 08:24	06/12/24 12:32	1,7196A	DTH

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-04
Client ID: SB-508_14.5-15
Sample Location: PHILA PA
Sample Depth:
Matrix: Soil
Date Collected: 06/07/24 11:21
Date Received: 06/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.4		%	0.100	NA	1	-	06/08/24 13:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.06	0.212	1	06/10/24 08:24	06/12/24 12:32	1,7196A	DTH

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-05
Client ID: SB-509_9.5-10
Sample Location: PHILA PA
Sample Depth:
Matrix: Soil
Date Collected: 06/07/24 11:50
Date Received: 06/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.9		%	0.100	NA	1	-	06/08/24 13:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.00	0.200	1	06/10/24 08:24	06/12/24 12:32	1,7196A	DTH

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-06
Client ID: SB-511_9.5-10
Sample Location: PHILA PA
Sample Depth:
Matrix: Soil
Date Collected: 06/07/24 13:02
Date Received: 06/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	06/08/24 13:03	121,2540G	ROI
Chromium, Hexavalent	3.24		mg/kg	0.940	0.188	1	06/10/24 08:24	06/12/24 12:32	1,7196A	DTH

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-07
Client ID: SB-511_11-11.5
Sample Location: PHILA PA
Sample Depth:
Matrix: Soil
Date Collected: 06/07/24 13:04
Date Received: 06/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.7		%	0.100	NA	1	-	06/08/24 13:03	121,2540G	ROI
Chromium, Hexavalent	8130		mg/kg	1320	264.	1000	06/10/24 08:24	06/12/24 12:32	1,7196A	DTH

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-08
Client ID: SB-512_9.5-10
Sample Location: PHILA PA
Sample Depth:
Matrix: Soil
Date Collected: 06/07/24 11:32
Date Received: 06/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3		%	0.100	NA	1	-	06/08/24 13:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.938	0.188	1	06/10/24 08:24	06/12/24 12:32	1,7196A	DTH

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-09
Client ID: SB-513_9.5-10
Sample Location: PHILA PA
Sample Depth:
Matrix: Soil
Date Collected: 06/07/24 14:02
Date Received: 06/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	52.6		%	0.100	NA	1	-	06/08/24 13:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.52	0.304	1	06/10/24 08:24	06/12/24 12:32	1,7196A	DTH

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-10
Client ID: SB-514_9.5-10
Sample Location: PHILA PA
Sample Depth:
Matrix: Soil
Date Collected: 06/07/24 14:15
Date Received: 06/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.9		%	0.100	NA	1	-	06/08/24 13:03	121,2540G	ROI
Chromium, Hexavalent	0.271	J	mg/kg	1.08	0.216	1	06/10/24 08:24	06/12/24 12:32	1,7196A	DTH

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-11
Client ID: DUP-SOIL
Sample Location: PHILA PA
Sample Depth:
Matrix: Soil

Date Collected: 06/07/24 00:00
Date Received: 06/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.9		%	0.100	NA	1	-	06/08/24 13:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.00	0.200	1	06/09/24 11:35	06/10/24 13:50	1,7196A	RDS

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432189-12
Client ID: SB-510_8.5-9
Sample Location: PHILA PA
Sample Depth:
Matrix: Soil
Date Collected: 06/07/24 11:58
Date Received: 06/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	06/08/24 13:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.875	0.175	1	06/09/24 11:35	06/10/24 13:50	1,7196A	RDS

Project Name: ALLISURE 51ST ST
Project Number: 30108678
Lab Number: L2432189
Report Date: 06/12/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 11-12 Batch: WG1931708-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	06/09/24 11:35	06/10/24 13:50	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1931879-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	06/10/24 08:24	06/12/24 12:32	1,7196A	DTH

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLISURE 51ST ST

Project Number: 30108678

Lab Number: L2432189

Report Date: 06/12/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11-12 Batch: WG1931708-2								
Chromium, Hexavalent	91		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1931879-2								
Chromium, Hexavalent	102		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLISURE 51ST ST
Project Number: 30108678

Lab Number: L2432189
Report Date: 06/12/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11-12 QC Batch ID: WG1931708-4 QC Sample: L2432189-12 Client ID: SB-510_8.5-9												
Chromium, Hexavalent	ND	1230	1190	97		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1931879-4 QC Sample: L2432189-03 Client ID: SB-507_14.5-15												
Chromium, Hexavalent	0.216J	1170	1130	97		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLISURE 51ST ST

Project Number: 30108678

Lab Number: L2432189

Report Date: 06/12/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1931585-1 QC Sample: L2432189-01 Client ID: SB-505_9.5-10						
Solids, Total	81.0	78.0	%	4		20
General Chemistry - Westborough Lab Associated sample(s): 11-12 QC Batch ID: WG1931708-6 QC Sample: L2432189-12 Client ID: SB-510_8.5-9						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1931879-6 QC Sample: L2432189-03 Client ID: SB-507_14.5-15						
Chromium, Hexavalent	0.216J	ND	mg/kg	NC		20

Project Name: ALLISURE 51ST ST
Project Number: 30108678

Lab Number: L2432189
Report Date: 06/12/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2432189-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		CR-TI(180)
L2432189-01C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TS(7),HEXCR-7196(30)
L2432189-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		CR-TI(180)
L2432189-02C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TS(7),HEXCR-7196(30)
L2432189-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		CR-TI(180)
L2432189-03C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TS(7),HEXCR-7196(30)
L2432189-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		CR-TI(180)
L2432189-04C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TS(7),HEXCR-7196(30)
L2432189-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		CR-TI(180)
L2432189-05C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TS(7),HEXCR-7196(30)
L2432189-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		CR-TI(180)
L2432189-06C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TS(7),HEXCR-7196(30)
L2432189-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		CR-TI(180)
L2432189-07C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TS(7),HEXCR-7196(30)
L2432189-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		CR-TI(180)
L2432189-08C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TS(7),HEXCR-7196(30)
L2432189-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		CR-TI(180)
L2432189-09C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TS(7),HEXCR-7196(30)
L2432189-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		CR-TI(180)
L2432189-10C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TS(7),HEXCR-7196(30)
L2432189-11A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		CR-TI(180)
L2432189-11C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TS(7),HEXCR-7196(30)
L2432189-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		CR-TI(180)

*Values in parentheses indicate holding time in days

Project Name: ALLISURE 51ST ST
Project Number: 30108678

Lab Number: L2432189
Report Date: 06/12/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2432189-12C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	ALLISURE 51ST ST	**Lab Number:**	L2432189
Project Number:	30108678	**Report Date:**	06/12/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLISURE 51ST ST	**Lab Number:**	L2432189
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLISURE 51ST ST	**Lab Number:**	L2432189
Project Number:	30108678	**Report Date:**	06/12/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLISURE 51ST ST	**Lab Number:**	L2432189
Project Number:	30108678	**Report Date:**	06/12/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL LABORATORIES

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 6/8/24

ALPHA Job #: L2432189

Client Information
Client: Arcadis
Address: 1 Lincoln Hwy Ste 4 Hillsborough NJ
Phone: 908-526-1414
Fax: Matt.Wilinski@arcadis.com
Email: Larry.Brant@arcadis.com

Project Information
Project Name: Allegro 81st St.
Project Location: Phila PA
Project #: 30088678
(Use Project name as Project #)
Project Manager: Larry Brant
ALPHAQuote #:

Turn-Around Time
Standard
Rush (only if pre approved) X
Due Date:
# of Days: 3 day

Deliverables
NJ Full / Reduced
EQuIS (1 File) EQuIS (4 File)
Other

Regulatory Requirement
SRS Residential/Non Residential
SRS Impact to Groundwater
NJ Ground Water Quality Standards
NJ IGW SPLP Leachate Criteria
Other

Billing Information
Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED: Category 1, Category 2

For VOC, selection is REQUIRED: 1,4-Dioxane, 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	filter Cr	field LCr	Total Bottle	Sample Specific Comments
32189-01	SB-505_9.5-10	6/7/24	1023	Soil	LD	X	X	2	
02	SB-506_9.5-10		1000			X	X	2	
03	SB-507_14.5-15		1409			X	X	2	
04	SB-508_14.5-15		1121			X	X	2	
05	SB-509_9.5-10		1150			X	X	2	
06	SB-511_9.5-10		1302			X	X	2	
07	SB-511_11-11.5		1304			X	X	2	
08	SB-512_9.5-10		1132			X	X	2	
09	SB-513_9.5-10		1402			X	X	2	
10	SB-514_9.5-10		1415			X	X	2	

Container Type: A A
Preservative: A A

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Lauren Donath/Arcadis	06/07/24/1600		06-7-24 16:00
	06/07/24 1800		6/7/24 1800
	6/7/24 2100	Anthony Green	JUN 07 2024 2015
Anthony Green	6/8/24 0224		6/8/24 0224
	6/8/24 0424		6/8/24 0424

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 6/8/24

ALPHA Job #: L2432189

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Arcadis
Address: 1 Hanover Way
Hillsborough NJ
Phone: ~~908-551~~
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Allisure 51st St
Project Location: Phila PA
Project #: 30108678
Project Manager: Larry Brunt
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Hex Cr, Total Cr

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Hex Cr	Total Cr	Sample Specific Comments	TOTAL # BOTTLES
32189-11	DUP-Soil	6/7/24	—	Soil	LD	X	X		2
12	SB-510_8.5-9	↓	1158	↓	↓	X	X		2

Container Type	A	A
Preservative	A	A

Rel: 6/8/24 0424
6/8/24 0424

Relinquished By:	Date/Time	Received By:	Date/Time
Lauren Dorsch/Arcadis	06/07/24 1600		06/07/24 1600
	06/07/24		6/7/24 1600
	6/7/24 2400	Anthony Green JUN 07 2024 2215	
Anthony Green	6/8/24 0224		6/8/24 0224

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L2441149
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST
Project Number:	30108678.07
Report Date:	07/29/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2441149-01	DEP51-S1	SOIL	51ST ST. PHILA PA	07/22/24 10:30	07/22/24
L2441149-02	DEP51-S2	SOIL	51ST ST. PHILA PA	07/22/24 10:45	07/22/24
L2441149-03	DEP51-S3	SOIL	51ST ST. PHILA PA	07/22/24 10:50	07/22/24
L2441149-04	DEP51-S4	SOIL	51ST ST. PHILA PA	07/22/24 11:00	07/22/24
L2441149-05	DEP51-S5	SOIL	51ST ST. PHILA PA	07/22/24 11:05	07/22/24
L2441149-06	DEP51-S6	SOIL	51ST ST. PHILA PA	07/22/24 11:10	07/22/24
L2441149-07	DEP51-S7	SOIL	51ST ST. PHILA PA	07/22/24 11:15	07/22/24
L2441149-08	DEP51-S8	SOIL	51ST ST. PHILA PA	07/22/24 11:20	07/22/24
L2441149-09	DEP51-S9	SOIL	51ST ST. PHILA PA	07/22/24 11:25	07/22/24
L2441149-10	DEP51-S10	SOIL	51ST ST. PHILA PA	07/22/24 11:30	07/22/24
L2441149-11	DEP51-S11	SOIL	51ST ST. PHILA PA	07/22/24 11:40	07/22/24
L2441149-12	DUP-S	SOIL	51ST ST. PHILA PA	07/22/24 00:00	07/22/24
L2441149-13	DEP51-W1	WATER	51ST ST. PHILA PA	07/22/24 12:05	07/22/24
L2441149-14	DEP51-W2	WATER	51ST ST. PHILA PA	07/22/24 12:10	07/22/24
L2441149-15	DEP51-W3	WATER	51ST ST. PHILA PA	07/22/24 12:15	07/22/24
L2441149-16	DEP51-W4	WATER	51ST ST. PHILA PA	07/22/24 13:00	07/22/24
L2441149-17	DUP-W	WATER	51ST ST. PHILA PA	07/22/24 00:00	07/22/24

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2441149
Project Number:	30108678.07	**Report Date:**	07/29/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2441149
Project Number:	30108678.07	**Report Date:**	07/29/24

Case Narrative (continued)

Report Submission

July 29, 2024: This final report includes the results of all requested analyses.

July 24, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2441149-01 through -12: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

The WG1950093-3 MS recovery, performed on L2441149-13, is outside the acceptance criteria for calcium (65%). A post digestion spike was performed and was within acceptance criteria.

Dissolved Metals

The WG1950096-3 MS recovery, performed on L2441149-13, is outside the acceptance criteria for calcium (54%). A post digestion spike was performed and was within acceptance criteria.

Hexavalent Chromium

The WG1950129-4 Insoluble MS recovery for chromium, hexavalent (45%), performed on L2441149-11, is outside the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (48%) was also outside criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 91%.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 07/29/24

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-01
Client ID: DEP51-S1
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 19:52
Analyst: AJK
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0010	1
Chloromethane	ND		mg/kg	0.0046	0.0011	1
Vinyl chloride	ND		mg/kg	0.0012	0.00039	1
Bromomethane	ND		mg/kg	0.0023	0.00067	1
Chloroethane	ND		mg/kg	0.0023	0.00052	1
Trichlorofluoromethane	ND		mg/kg	0.0046	0.00080	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00027	1
Carbon disulfide	ND		mg/kg	0.012	0.0052	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0046	0.00080	1
Methylene chloride	ND		mg/kg	0.0058	0.0026	1
Acetone	ND		mg/kg	0.029	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00016	1
Methyl Acetate	ND		mg/kg	0.0046	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00017	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00016	1
Cyclohexane	ND		mg/kg	0.012	0.00063	1
Bromochloromethane	ND		mg/kg	0.0023	0.00024	1
Chloroform	ND		mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00058	0.00019	1
2-Butanone	ND		mg/kg	0.012	0.0026	1
Benzene	ND		mg/kg	0.00058	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1
Methyl cyclohexane	ND		mg/kg	0.0046	0.00070	1
Trichloroethene	ND		mg/kg	0.00058	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00014	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-01
Client ID: DEP51-S1
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00058	0.00012	1
1,4-Dioxane	ND		mg/kg	0.092	0.040	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00058	0.00018	1
Toluene	ND		mg/kg	0.0012	0.00063	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0015	1
Tetrachloroethene	ND		mg/kg	0.00058	0.00023	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00032	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00058	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00031	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00058	0.00034	1
2-Hexanone	ND		mg/kg	0.012	0.0014	1
Chlorobenzene	ND		mg/kg	0.00058	0.00015	1
Ethylbenzene	ND		mg/kg	0.0012	0.00016	1
p/m-Xylene	ND		mg/kg	0.0023	0.00065	1
o-Xylene	ND		mg/kg	0.0012	0.00034	1
Xylenes, Total	ND		mg/kg	0.0012	0.00034	1
Styrene	ND		mg/kg	0.0012	0.00023	1
Bromoform	ND		mg/kg	0.0046	0.00028	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00058	0.00019	1
1,3-Dichlorobenzene	ND		mg/kg	0.0023	0.00017	1
1,4-Dichlorobenzene	ND		mg/kg	0.0023	0.00020	1
1,2-Dichlorobenzene	ND		mg/kg	0.0023	0.00017	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0035	0.0012	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0023	0.00031	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0023	0.00037	1

Tentatively Identified Compounds					
Total TIC Compounds	0.00432	J	mg/kg		1
Unknown Cycloalkane	0.00432	J	mg/kg		1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-01
Client ID: DEP51-S1
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 10:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-02
Client ID: DEP51-S2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:45
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 20:18
Analyst: AJK
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0014	1
Chloromethane	ND		mg/kg	0.0062	0.0014	1
Vinyl chloride	ND		mg/kg	0.0016	0.00052	1
Bromomethane	ND		mg/kg	0.0031	0.00090	1
Chloroethane	ND		mg/kg	0.0031	0.00070	1
Trichlorofluoromethane	ND		mg/kg	0.0062	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00037	1
Carbon disulfide	ND		mg/kg	0.016	0.0071	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0062	0.0011	1
Methylene chloride	ND		mg/kg	0.0078	0.0036	1
Acetone	ND		mg/kg	0.039	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0023	0.00021	1
Methyl Acetate	ND		mg/kg	0.0062	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0031	0.00031	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00022	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00027	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00021	1
Cyclohexane	ND		mg/kg	0.016	0.00085	1
Bromochloromethane	ND		mg/kg	0.0031	0.00032	1
Chloroform	ND		mg/kg	0.0023	0.00022	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00036	1
1,1,1-Trichloroethane	ND		mg/kg	0.00078	0.00026	1
2-Butanone	ND		mg/kg	0.016	0.0034	1
Benzene	ND		mg/kg	0.00078	0.00026	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00040	1
Methyl cyclohexane	ND		mg/kg	0.0062	0.00094	1
Trichloroethene	ND		mg/kg	0.00078	0.00021	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00019	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-02
Client ID: DEP51-S2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:45
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00078	0.00017	1
1,4-Dioxane	ND		mg/kg	0.12	0.054	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00078	0.00024	1
Toluene	ND		mg/kg	0.0016	0.00084	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0020	1
Tetrachloroethene	ND		mg/kg	0.00078	0.00030	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00042	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00078	0.00024	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00042	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00022	1
1,2-Dibromoethane	ND		mg/kg	0.00078	0.00046	1
2-Hexanone	ND		mg/kg	0.016	0.0018	1
Chlorobenzene	ND		mg/kg	0.00078	0.00020	1
Ethylbenzene	ND		mg/kg	0.0016	0.00022	1
p/m-Xylene	ND		mg/kg	0.0031	0.00087	1
o-Xylene	ND		mg/kg	0.0016	0.00045	1
Xylenes, Total	ND		mg/kg	0.0016	0.00045	1
Styrene	ND		mg/kg	0.0016	0.00030	1
Bromoform	ND		mg/kg	0.0062	0.00038	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00017	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00078	0.00026	1
1,3-Dichlorobenzene	ND		mg/kg	0.0031	0.00023	1
1,4-Dichlorobenzene	ND		mg/kg	0.0031	0.00026	1
1,2-Dichlorobenzene	ND		mg/kg	0.0031	0.00022	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0047	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0031	0.00042	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0031	0.00050	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-02
Client ID: DEP51-S2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:45
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-03
Client ID: DEP51-S3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:50
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 20:44
Analyst: AJK
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.024	0.0022	1
Chloromethane	ND		mg/kg	0.0095	0.0022	1
Vinyl chloride	ND		mg/kg	0.0024	0.00079	1
Bromomethane	ND		mg/kg	0.0047	0.0014	1
Chloroethane	ND		mg/kg	0.0047	0.0011	1
Trichlorofluoromethane	ND		mg/kg	0.0095	0.0016	1
1,1-Dichloroethene	ND		mg/kg	0.0024	0.00056	1
Carbon disulfide	ND		mg/kg	0.024	0.011	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0095	0.0016	1
Methylene chloride	ND		mg/kg	0.012	0.0054	1
Acetone	ND		mg/kg	0.059	0.024	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0036	0.00032	1
Methyl Acetate	ND		mg/kg	0.0095	0.0022	1
Methyl tert butyl ether	ND		mg/kg	0.0047	0.00048	1
1,1-Dichloroethane	ND		mg/kg	0.0024	0.00034	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00041	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0024	0.00032	1
Cyclohexane	ND		mg/kg	0.024	0.0013	1
Bromochloromethane	ND		mg/kg	0.0047	0.00048	1
Chloroform	ND		mg/kg	0.0036	0.00033	1
Carbon tetrachloride	ND		mg/kg	0.0024	0.00054	1
1,1,1-Trichloroethane	ND		mg/kg	0.0012	0.00040	1
2-Butanone	ND		mg/kg	0.024	0.0053	1
Benzene	ND		mg/kg	0.0012	0.00039	1
1,2-Dichloroethane	ND		mg/kg	0.0024	0.00061	1
Methyl cyclohexane	ND		mg/kg	0.0095	0.0014	1
Trichloroethene	ND		mg/kg	0.0012	0.00032	1
1,2-Dichloropropane	ND		mg/kg	0.0024	0.00030	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-03
Client ID: DEP51-S3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:50
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0012	0.00026	1
1,4-Dioxane	ND		mg/kg	0.19	0.083	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00037	1
Toluene	ND		mg/kg	0.0024	0.0013	1
4-Methyl-2-pentanone	ND		mg/kg	0.024	0.0030	1
Tetrachloroethene	ND		mg/kg	0.0012	0.00046	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0024	0.00065	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0012	0.00037	1
1,1,2-Trichloroethane	ND		mg/kg	0.0024	0.00063	1
Dibromochloromethane	ND		mg/kg	0.0024	0.00033	1
1,2-Dibromoethane	ND		mg/kg	0.0012	0.00069	1
2-Hexanone	ND		mg/kg	0.024	0.0028	1
Chlorobenzene	ND		mg/kg	0.0012	0.00030	1
Ethylbenzene	ND		mg/kg	0.0024	0.00033	1
p/m-Xylene	ND		mg/kg	0.0047	0.0013	1
o-Xylene	ND		mg/kg	0.0024	0.00069	1
Xylenes, Total	ND		mg/kg	0.0024	0.00069	1
Styrene	ND		mg/kg	0.0024	0.00046	1
Bromoform	ND		mg/kg	0.0095	0.00058	1
Isopropylbenzene	ND		mg/kg	0.0024	0.00026	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0012	0.00039	1
1,3-Dichlorobenzene	ND		mg/kg	0.0047	0.00035	1
1,4-Dichlorobenzene	ND		mg/kg	0.0047	0.00040	1
1,2-Dichlorobenzene	ND		mg/kg	0.0047	0.00034	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0071	0.0024	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0047	0.00064	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0047	0.00076	1

Tentatively Identified Compounds				
Total TIC Compounds	0.0181	J	mg/kg	1
Unknown	0.0181	J	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-03
Client ID: DEP51-S3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:50
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	104		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-04
Client ID: DEP51-S4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 21:10
Analyst: AJK
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.020	0.0018	1
Chloromethane	ND		mg/kg	0.0079	0.0018	1
Vinyl chloride	ND		mg/kg	0.0020	0.00066	1
Bromomethane	ND		mg/kg	0.0039	0.0011	1
Chloroethane	ND		mg/kg	0.0039	0.00089	1
Trichlorofluoromethane	ND		mg/kg	0.0079	0.0014	1
1,1-Dichloroethene	ND		mg/kg	0.0020	0.00047	1
Carbon disulfide	ND		mg/kg	0.020	0.0090	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0079	0.0014	1
Methylene chloride	ND		mg/kg	0.0099	0.0045	1
Acetone	ND		mg/kg	0.049	0.020	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0030	0.00027	1
Methyl Acetate	ND		mg/kg	0.0079	0.0019	1
Methyl tert butyl ether	ND		mg/kg	0.0039	0.00040	1
1,1-Dichloroethane	ND		mg/kg	0.0020	0.00029	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00034	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0020	0.00027	1
Cyclohexane	ND		mg/kg	0.020	0.0011	1
Bromochloromethane	ND		mg/kg	0.0039	0.00040	1
Chloroform	ND		mg/kg	0.0030	0.00028	1
Carbon tetrachloride	ND		mg/kg	0.0020	0.00045	1
1,1,1-Trichloroethane	ND		mg/kg	0.00099	0.00033	1
2-Butanone	ND		mg/kg	0.020	0.0044	1
Benzene	ND		mg/kg	0.00099	0.00033	1
1,2-Dichloroethane	ND		mg/kg	0.0020	0.00051	1
Methyl cyclohexane	ND		mg/kg	0.0079	0.0012	1
Trichloroethene	ND		mg/kg	0.00099	0.00027	1
1,2-Dichloropropane	ND		mg/kg	0.0020	0.00025	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-04
Client ID: DEP51-S4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00099	0.00022	1
1,4-Dioxane	ND		mg/kg	0.16	0.069	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00099	0.00031	1
Toluene	ND		mg/kg	0.0020	0.0011	1
4-Methyl-2-pentanone	ND		mg/kg	0.020	0.0025	1
Tetrachloroethene	ND		mg/kg	0.00099	0.00039	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0020	0.00054	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00099	0.00031	1
1,1,2-Trichloroethane	ND		mg/kg	0.0020	0.00053	1
Dibromochloromethane	ND		mg/kg	0.0020	0.00028	1
1,2-Dibromoethane	ND		mg/kg	0.00099	0.00058	1
2-Hexanone	ND		mg/kg	0.020	0.0023	1
Chlorobenzene	ND		mg/kg	0.00099	0.00025	1
Ethylbenzene	ND		mg/kg	0.0020	0.00028	1
p/m-Xylene	ND		mg/kg	0.0039	0.0011	1
o-Xylene	ND		mg/kg	0.0020	0.00057	1
Xylenes, Total	ND		mg/kg	0.0020	0.00057	1
Styrene	ND		mg/kg	0.0020	0.00039	1
Bromoform	ND		mg/kg	0.0079	0.00048	1
Isopropylbenzene	ND		mg/kg	0.0020	0.00022	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00099	0.00033	1
1,3-Dichlorobenzene	ND		mg/kg	0.0039	0.00029	1
1,4-Dichlorobenzene	ND		mg/kg	0.0039	0.00034	1
1,2-Dichlorobenzene	ND		mg/kg	0.0039	0.00028	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0059	0.0020	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0039	0.00054	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0039	0.00064	1

Tentatively Identified Compounds					
Total TIC Compounds	0.00965	J	mg/kg		1
Cyclopentane	0.00965	NJ	mg/kg		1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-04
Client ID: DEP51-S4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	104		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-05
Client ID: DEP51-S5
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 21:36
Analyst: AJK
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.015	0.0014	1
Chloromethane	ND		mg/kg	0.0062	0.0014	1
Vinyl chloride	ND		mg/kg	0.0015	0.00052	1
Bromomethane	ND		mg/kg	0.0031	0.00090	1
Chloroethane	ND		mg/kg	0.0031	0.00070	1
Trichlorofluoromethane	ND		mg/kg	0.0062	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0015	0.00037	1
Carbon disulfide	ND		mg/kg	0.015	0.0070	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0062	0.0011	1
Methylene chloride	ND		mg/kg	0.0077	0.0035	1
Acetone	ND		mg/kg	0.038	0.015	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0023	0.00021	1
Methyl Acetate	ND		mg/kg	0.0062	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0031	0.00031	1
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00022	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00027	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0015	0.00021	1
Cyclohexane	ND		mg/kg	0.015	0.00084	1
Bromochloromethane	ND		mg/kg	0.0031	0.00032	1
Chloroform	ND		mg/kg	0.0023	0.00022	1
Carbon tetrachloride	ND		mg/kg	0.0015	0.00035	1
1,1,1-Trichloroethane	ND		mg/kg	0.00077	0.00026	1
2-Butanone	ND		mg/kg	0.015	0.0034	1
Benzene	ND		mg/kg	0.00077	0.00026	1
1,2-Dichloroethane	ND		mg/kg	0.0015	0.00040	1
Methyl cyclohexane	ND		mg/kg	0.0062	0.00093	1
Trichloroethene	ND		mg/kg	0.00077	0.00021	1
1,2-Dichloropropane	ND		mg/kg	0.0015	0.00019	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-05
Client ID: DEP51-S5
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00077	0.00017	1
1,4-Dioxane	ND		mg/kg	0.12	0.054	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00077	0.00024	1
Toluene	ND		mg/kg	0.0015	0.00084	1
4-Methyl-2-pentanone	ND		mg/kg	0.015	0.0020	1
Tetrachloroethene	ND		mg/kg	0.00077	0.00030	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0015	0.00042	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00077	0.00024	1
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00041	1
Dibromochloromethane	ND		mg/kg	0.0015	0.00022	1
1,2-Dibromoethane	ND		mg/kg	0.00077	0.00045	1
2-Hexanone	ND		mg/kg	0.015	0.0018	1
Chlorobenzene	ND		mg/kg	0.00077	0.00020	1
Ethylbenzene	ND		mg/kg	0.0015	0.00022	1
p/m-Xylene	ND		mg/kg	0.0031	0.00086	1
o-Xylene	ND		mg/kg	0.0015	0.00045	1
Xylenes, Total	ND		mg/kg	0.0015	0.00045	1
Styrene	ND		mg/kg	0.0015	0.00030	1
Bromoform	ND		mg/kg	0.0062	0.00038	1
Isopropylbenzene	ND		mg/kg	0.0015	0.00017	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00077	0.00026	1
1,3-Dichlorobenzene	ND		mg/kg	0.0031	0.00023	1
1,4-Dichlorobenzene	ND		mg/kg	0.0031	0.00026	1
1,2-Dichlorobenzene	ND		mg/kg	0.0031	0.00022	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0046	0.0015	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0031	0.00042	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0031	0.00050	1

Tentatively Identified Compounds				
Total TIC Compounds	0.0120	J	mg/kg	1
Unknown	0.0120	J	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-05
Client ID: DEP51-S5
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-06
Client ID: DEP51-S6
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 22:02
Analyst: AJK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0056	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00046	1
Bromomethane	ND		mg/kg	0.0028	0.00081	1
Chloroethane	ND		mg/kg	0.0028	0.00063	1
Trichlorofluoromethane	ND		mg/kg	0.0056	0.00097	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00033	1
Carbon disulfide	ND		mg/kg	0.014	0.0063	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0056	0.00096	1
Methylene chloride	ND		mg/kg	0.0070	0.0032	1
Acetone	ND		mg/kg	0.035	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00019	1
Methyl Acetate	0.0044	J	mg/kg	0.0056	0.0013	1
Methyl tert butyl ether	ND		mg/kg	0.0028	0.00028	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00020	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00024	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00019	1
Cyclohexane	ND		mg/kg	0.014	0.00076	1
Bromochloromethane	ND		mg/kg	0.0028	0.00028	1
Chloroform	ND		mg/kg	0.0021	0.00019	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00032	1
1,1,1-Trichloroethane	ND		mg/kg	0.00070	0.00023	1
2-Butanone	ND		mg/kg	0.014	0.0031	1
Benzene	ND		mg/kg	0.00070	0.00023	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00036	1
Methyl cyclohexane	ND		mg/kg	0.0056	0.00084	1
Trichloroethene	ND		mg/kg	0.00070	0.00019	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00017	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-06
Client ID: DEP51-S6
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00070	0.00015	1
1,4-Dioxane	ND		mg/kg	0.11	0.049	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00070	0.00022	1
Toluene	ND		mg/kg	0.0014	0.00076	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00070	0.00027	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00038	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00070	0.00022	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00037	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00019	1
1,2-Dibromoethane	ND		mg/kg	0.00070	0.00041	1
2-Hexanone	ND		mg/kg	0.014	0.0016	1
Chlorobenzene	ND		mg/kg	0.00070	0.00018	1
Ethylbenzene	ND		mg/kg	0.0014	0.00020	1
p/m-Xylene	ND		mg/kg	0.0028	0.00078	1
o-Xylene	ND		mg/kg	0.0014	0.00040	1
Xylenes, Total	ND		mg/kg	0.0014	0.00040	1
Styrene	ND		mg/kg	0.0014	0.00027	1
Bromoform	ND		mg/kg	0.0056	0.00034	1
Isopropylbenzene	ND		mg/kg	0.0014	0.00015	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00070	0.00023	1
1,3-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,4-Dichlorobenzene	ND		mg/kg	0.0028	0.00024	1
1,2-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0042	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0028	0.00038	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0028	0.00045	1

Tentatively Identified Compounds				
Total TIC Compounds	0.00572	J	mg/kg	1
Cyclopentane	0.00572	NJ	mg/kg	1

Project Name: ALLIANCE 51ST **Lab Number:** L2441149

Project Number: 30108678.07 **Report Date:** 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-06 Date Collected: 07/22/24 11:10

Client ID: DEP51-S6 Date Received: 07/22/24

Sample Location: 51ST ST. PHILA PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-07
Client ID: DEP51-S7
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 22:28
Analyst: AJK
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0015	1
Chloromethane	ND		mg/kg	0.0066	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00055	1
Bromomethane	ND		mg/kg	0.0033	0.00096	1
Chloroethane	ND		mg/kg	0.0033	0.00075	1
Trichlorofluoromethane	ND		mg/kg	0.0066	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00039	1
Carbon disulfide	ND		mg/kg	0.016	0.0075	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0066	0.0011	1
Methylene chloride	ND		mg/kg	0.0082	0.0038	1
Acetone	ND		mg/kg	0.041	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0025	0.00023	1
Methyl Acetate	ND		mg/kg	0.0066	0.0016	1
Methyl tert butyl ether	ND		mg/kg	0.0033	0.00033	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00024	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00029	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00023	1
Cyclohexane	ND		mg/kg	0.016	0.00090	1
Bromochloromethane	ND		mg/kg	0.0033	0.00034	1
Chloroform	ND		mg/kg	0.0025	0.00023	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00038	1
1,1,1-Trichloroethane	ND		mg/kg	0.00082	0.00028	1
2-Butanone	ND		mg/kg	0.016	0.0037	1
Benzene	ND		mg/kg	0.00082	0.00027	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00042	1
Methyl cyclohexane	ND		mg/kg	0.0066	0.0010	1
Trichloroethene	ND		mg/kg	0.00082	0.00023	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00021	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-07
Client ID: DEP51-S7
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00082	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.058	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00082	0.00026	1
Toluene	ND		mg/kg	0.0016	0.00090	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0021	1
Tetrachloroethene	ND		mg/kg	0.00082	0.00032	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00045	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00082	0.00026	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00044	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00023	1
1,2-Dibromoethane	ND		mg/kg	0.00082	0.00048	1
2-Hexanone	ND		mg/kg	0.016	0.0019	1
Chlorobenzene	ND		mg/kg	0.00082	0.00021	1
Ethylbenzene	ND		mg/kg	0.0016	0.00023	1
p/m-Xylene	ND		mg/kg	0.0033	0.00092	1
o-Xylene	ND		mg/kg	0.0016	0.00048	1
Xylenes, Total	ND		mg/kg	0.0016	0.00048	1
Styrene	ND		mg/kg	0.0016	0.00032	1
Bromoform	ND		mg/kg	0.0066	0.00041	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00082	0.00027	1
1,3-Dichlorobenzene	ND		mg/kg	0.0033	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0033	0.00028	1
1,2-Dichlorobenzene	ND		mg/kg	0.0033	0.00024	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0050	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0033	0.00045	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0033	0.00053	1

Tentatively Identified Compounds					
Total TIC Compounds	0.00761	J	mg/kg		1
Unknown	0.00761	J	mg/kg		1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-07
Client ID: DEP51-S7
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	104		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-08
Client ID: DEP51-S8
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:20
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 22:54
Analyst: AJK
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.020	0.0018	1
Chloromethane	ND		mg/kg	0.0079	0.0018	1
Vinyl chloride	ND		mg/kg	0.0020	0.00066	1
Bromomethane	ND		mg/kg	0.0040	0.0011	1
Chloroethane	ND		mg/kg	0.0040	0.00089	1
Trichlorofluoromethane	ND		mg/kg	0.0079	0.0014	1
1,1-Dichloroethene	ND		mg/kg	0.0020	0.00047	1
Carbon disulfide	ND		mg/kg	0.020	0.0090	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0079	0.0014	1
Methylene chloride	ND		mg/kg	0.0099	0.0045	1
Acetone	ND		mg/kg	0.049	0.020	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0030	0.00027	1
Methyl Acetate	ND		mg/kg	0.0079	0.0019	1
Methyl tert butyl ether	ND		mg/kg	0.0040	0.00040	1
1,1-Dichloroethane	ND		mg/kg	0.0020	0.00029	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00035	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0020	0.00027	1
Cyclohexane	ND		mg/kg	0.020	0.0011	1
Bromochloromethane	ND		mg/kg	0.0040	0.00040	1
Chloroform	ND		mg/kg	0.0030	0.00028	1
Carbon tetrachloride	ND		mg/kg	0.0020	0.00046	1
1,1,1-Trichloroethane	ND		mg/kg	0.00099	0.00033	1
2-Butanone	ND		mg/kg	0.020	0.0044	1
Benzene	ND		mg/kg	0.00099	0.00033	1
1,2-Dichloroethane	ND		mg/kg	0.0020	0.00051	1
Methyl cyclohexane	ND		mg/kg	0.0079	0.0012	1
Trichloroethene	ND		mg/kg	0.00099	0.00027	1
1,2-Dichloropropane	ND		mg/kg	0.0020	0.00025	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-08
Client ID: DEP51-S8
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:20
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00099	0.00022	1
1,4-Dioxane	ND		mg/kg	0.16	0.069	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00099	0.00031	1
Toluene	ND		mg/kg	0.0020	0.0011	1
4-Methyl-2-pentanone	ND		mg/kg	0.020	0.0025	1
Tetrachloroethene	ND		mg/kg	0.00099	0.00039	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0020	0.00054	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00099	0.00031	1
1,1,2-Trichloroethane	ND		mg/kg	0.0020	0.00053	1
Dibromochloromethane	ND		mg/kg	0.0020	0.00028	1
1,2-Dibromoethane	ND		mg/kg	0.00099	0.00058	1
2-Hexanone	ND		mg/kg	0.020	0.0023	1
Chlorobenzene	ND		mg/kg	0.00099	0.00025	1
Ethylbenzene	ND		mg/kg	0.0020	0.00028	1
p/m-Xylene	ND		mg/kg	0.0040	0.0011	1
o-Xylene	ND		mg/kg	0.0020	0.00058	1
Xylenes, Total	ND		mg/kg	0.0020	0.00058	1
Styrene	ND		mg/kg	0.0020	0.00039	1
Bromoform	ND		mg/kg	0.0079	0.00049	1
Isopropylbenzene	ND		mg/kg	0.0020	0.00022	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00099	0.00033	1
1,3-Dichlorobenzene	ND		mg/kg	0.0040	0.00029	1
1,4-Dichlorobenzene	ND		mg/kg	0.0040	0.00034	1
1,2-Dichlorobenzene	ND		mg/kg	0.0040	0.00028	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0059	0.0020	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0040	0.00054	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0040	0.00064	1

Tentatively Identified Compounds				
Total TIC Compounds	0.0121	J	mg/kg	1
Unknown	0.0121	J	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-08
Client ID: DEP51-S8
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:20
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-09
Client ID: DEP51-S9
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:25
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 23:20
Analyst: AJK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.021	0.0019	1
Chloromethane	ND		mg/kg	0.0083	0.0019	1
Vinyl chloride	ND		mg/kg	0.0021	0.00070	1
Bromomethane	ND		mg/kg	0.0042	0.0012	1
Chloroethane	ND		mg/kg	0.0042	0.00094	1
Trichlorofluoromethane	ND		mg/kg	0.0083	0.0014	1
1,1-Dichloroethene	ND		mg/kg	0.0021	0.00050	1
Carbon disulfide	ND		mg/kg	0.021	0.0095	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0083	0.0014	1
Methylene chloride	ND		mg/kg	0.010	0.0048	1
Acetone	ND		mg/kg	0.052	0.021	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0031	0.00028	1
Methyl Acetate	ND		mg/kg	0.0083	0.0020	1
Methyl tert butyl ether	ND		mg/kg	0.0042	0.00042	1
1,1-Dichloroethane	ND		mg/kg	0.0021	0.00030	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00036	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0021	0.00028	1
Cyclohexane	ND		mg/kg	0.021	0.0011	1
Bromochloromethane	ND		mg/kg	0.0042	0.00043	1
Chloroform	ND		mg/kg	0.0031	0.00029	1
Carbon tetrachloride	ND		mg/kg	0.0021	0.00048	1
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00035	1
2-Butanone	ND		mg/kg	0.021	0.0046	1
Benzene	ND		mg/kg	0.0010	0.00034	1
1,2-Dichloroethane	ND		mg/kg	0.0021	0.00054	1
Methyl cyclohexane	ND		mg/kg	0.0083	0.0012	1
Trichloroethene	ND		mg/kg	0.0010	0.00028	1
1,2-Dichloropropane	ND		mg/kg	0.0021	0.00026	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-09
Client ID: DEP51-S9
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:25
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0010	0.00023	1
1,4-Dioxane	ND		mg/kg	0.17	0.073	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00033	1
Toluene	ND		mg/kg	0.0021	0.0011	1
4-Methyl-2-pentanone	ND		mg/kg	0.021	0.0027	1
Tetrachloroethene	ND		mg/kg	0.0010	0.00041	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0021	0.00057	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00033	1
1,1,2-Trichloroethane	ND		mg/kg	0.0021	0.00056	1
Dibromochloromethane	ND		mg/kg	0.0021	0.00029	1
1,2-Dibromoethane	ND		mg/kg	0.0010	0.00061	1
2-Hexanone	ND		mg/kg	0.021	0.0024	1
Chlorobenzene	ND		mg/kg	0.0010	0.00026	1
Ethylbenzene	ND		mg/kg	0.0021	0.00029	1
p/m-Xylene	ND		mg/kg	0.0042	0.0012	1
o-Xylene	ND		mg/kg	0.0021	0.00061	1
Xylenes, Total	ND		mg/kg	0.0021	0.00061	1
Styrene	ND		mg/kg	0.0021	0.00041	1
Bromoform	ND		mg/kg	0.0083	0.00051	1
Isopropylbenzene	ND		mg/kg	0.0021	0.00023	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00034	1
1,3-Dichlorobenzene	ND		mg/kg	0.0042	0.00031	1
1,4-Dichlorobenzene	ND		mg/kg	0.0042	0.00036	1
1,2-Dichlorobenzene	ND		mg/kg	0.0042	0.00030	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0062	0.0021	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0042	0.00057	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0042	0.00067	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-09
Client ID: DEP51-S9
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:25
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-10
Client ID: DEP51-S10
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 23:46
Analyst: AJK
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.024	0.0022	1
Chloromethane	ND		mg/kg	0.0097	0.0023	1
Vinyl chloride	ND		mg/kg	0.0024	0.00082	1
Bromomethane	ND		mg/kg	0.0049	0.0014	1
Chloroethane	ND		mg/kg	0.0049	0.0011	1
Trichlorofluoromethane	ND		mg/kg	0.0097	0.0017	1
1,1-Dichloroethene	ND		mg/kg	0.0024	0.00058	1
Carbon disulfide	ND		mg/kg	0.024	0.011	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0097	0.0017	1
Methylene chloride	ND		mg/kg	0.012	0.0056	1
Acetone	ND		mg/kg	0.061	0.024	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0036	0.00033	1
Methyl Acetate	ND		mg/kg	0.0097	0.0023	1
Methyl tert butyl ether	ND		mg/kg	0.0049	0.00049	1
1,1-Dichloroethane	ND		mg/kg	0.0024	0.00035	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00043	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0024	0.00033	1
Cyclohexane	ND		mg/kg	0.024	0.0013	1
Bromochloromethane	ND		mg/kg	0.0049	0.00050	1
Chloroform	ND		mg/kg	0.0036	0.00034	1
Carbon tetrachloride	ND		mg/kg	0.0024	0.00056	1
1,1,1-Trichloroethane	ND		mg/kg	0.0012	0.00041	1
2-Butanone	ND		mg/kg	0.024	0.0054	1
Benzene	ND		mg/kg	0.0012	0.00040	1
1,2-Dichloroethane	ND		mg/kg	0.0024	0.00063	1
Methyl cyclohexane	ND		mg/kg	0.0097	0.0015	1
Trichloroethene	ND		mg/kg	0.0012	0.00033	1
1,2-Dichloropropane	ND		mg/kg	0.0024	0.00030	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-10
Client ID: DEP51-S10
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0012	0.00026	1
1,4-Dioxane	ND		mg/kg	0.19	0.086	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00038	1
Toluene	ND		mg/kg	0.0024	0.0013	1
4-Methyl-2-pentanone	ND		mg/kg	0.024	0.0031	1
Tetrachloroethene	ND		mg/kg	0.0012	0.00048	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0024	0.00066	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0012	0.00038	1
1,1,2-Trichloroethane	ND		mg/kg	0.0024	0.00065	1
Dibromochloromethane	ND		mg/kg	0.0024	0.00034	1
1,2-Dibromoethane	ND		mg/kg	0.0012	0.00071	1
2-Hexanone	ND		mg/kg	0.024	0.0029	1
Chlorobenzene	ND		mg/kg	0.0012	0.00031	1
Ethylbenzene	ND		mg/kg	0.0024	0.00034	1
p/m-Xylene	ND		mg/kg	0.0049	0.0014	1
o-Xylene	ND		mg/kg	0.0024	0.00071	1
Xylenes, Total	ND		mg/kg	0.0024	0.00071	1
Styrene	ND		mg/kg	0.0024	0.00048	1
Bromoform	ND		mg/kg	0.0097	0.00060	1
Isopropylbenzene	ND		mg/kg	0.0024	0.00026	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0012	0.00040	1
1,3-Dichlorobenzene	ND		mg/kg	0.0049	0.00036	1
1,4-Dichlorobenzene	ND		mg/kg	0.0049	0.00042	1
1,2-Dichlorobenzene	ND		mg/kg	0.0049	0.00035	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0073	0.0024	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0049	0.00066	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0049	0.00078	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-10
Client ID: DEP51-S10
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-11
Client ID: DEP51-S11
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:40
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/25/24 00:12
Analyst: AJK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.022	0.0020	1
Chloromethane	ND		mg/kg	0.0090	0.0021	1
Vinyl chloride	ND		mg/kg	0.0022	0.00075	1
Bromomethane	ND		mg/kg	0.0045	0.0013	1
Chloroethane	ND		mg/kg	0.0045	0.0010	1
Trichlorofluoromethane	ND		mg/kg	0.0090	0.0016	1
1,1-Dichloroethene	ND		mg/kg	0.0022	0.00054	1
Carbon disulfide	ND		mg/kg	0.022	0.010	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0090	0.0016	1
Methylene chloride	ND		mg/kg	0.011	0.0051	1
Acetone	0.23		mg/kg	0.056	0.022	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0034	0.00031	1
Methyl Acetate	ND		mg/kg	0.0090	0.0021	1
Methyl tert butyl ether	ND		mg/kg	0.0045	0.00045	1
1,1-Dichloroethane	ND		mg/kg	0.0022	0.00032	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0022	0.00039	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0022	0.00031	1
Cyclohexane	ND		mg/kg	0.022	0.0012	1
Bromochloromethane	ND		mg/kg	0.0045	0.00046	1
Chloroform	ND		mg/kg	0.0034	0.00031	1
Carbon tetrachloride	ND		mg/kg	0.0022	0.00052	1
1,1,1-Trichloroethane	ND		mg/kg	0.0011	0.00038	1
2-Butanone	0.14		mg/kg	0.022	0.0050	1
Benzene	ND		mg/kg	0.0011	0.00037	1
1,2-Dichloroethane	ND		mg/kg	0.0022	0.00058	1
Methyl cyclohexane	ND		mg/kg	0.0090	0.0014	1
Trichloroethene	ND		mg/kg	0.0011	0.00031	1
1,2-Dichloropropane	ND		mg/kg	0.0022	0.00028	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-11
Client ID: DEP51-S11
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:40
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0011	0.00024	1
1,4-Dioxane	ND		mg/kg	0.18	0.079	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00036	1
Toluene	ND		mg/kg	0.0022	0.0012	1
4-Methyl-2-pentanone	ND		mg/kg	0.022	0.0029	1
Tetrachloroethene	ND		mg/kg	0.0011	0.00044	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0022	0.00061	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0011	0.00036	1
1,1,2-Trichloroethane	ND		mg/kg	0.0022	0.00060	1
Dibromochloromethane	ND		mg/kg	0.0022	0.00031	1
1,2-Dibromoethane	ND		mg/kg	0.0011	0.00066	1
2-Hexanone	ND		mg/kg	0.022	0.0026	1
Chlorobenzene	ND		mg/kg	0.0011	0.00028	1
Ethylbenzene	ND		mg/kg	0.0022	0.00032	1
p/m-Xylene	ND		mg/kg	0.0045	0.0012	1
o-Xylene	ND		mg/kg	0.0022	0.00065	1
Xylenes, Total	ND		mg/kg	0.0022	0.00065	1
Styrene	ND		mg/kg	0.0022	0.00044	1
Bromoform	ND		mg/kg	0.0090	0.00055	1
Isopropylbenzene	ND		mg/kg	0.0022	0.00024	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0011	0.00037	1
1,3-Dichlorobenzene	ND		mg/kg	0.0045	0.00033	1
1,4-Dichlorobenzene	ND		mg/kg	0.0045	0.00038	1
1,2-Dichlorobenzene	ND		mg/kg	0.0045	0.00032	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0067	0.0022	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0045	0.00061	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0045	0.00072	1

Tentatively Identified Compounds				
Total TIC Compounds	0.140	J	mg/kg	1
Unknown	0.00742	J	mg/kg	1
Unknown	0.0766	J	mg/kg	1
Unknown	0.0565	J	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-11
Client ID: DEP51-S11
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:40
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-12
Client ID: DUP-S
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/25/24 00:39
Analyst: AJK
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0015	1
Chloromethane	ND		mg/kg	0.0064	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00054	1
Bromomethane	ND		mg/kg	0.0032	0.00093	1
Chloroethane	ND		mg/kg	0.0032	0.00072	1
Trichlorofluoromethane	ND		mg/kg	0.0064	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00038	1
Carbon disulfide	ND		mg/kg	0.016	0.0073	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0064	0.0011	1
Methylene chloride	ND		mg/kg	0.0080	0.0037	1
Acetone	ND		mg/kg	0.040	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00022	1
Methyl Acetate	ND		mg/kg	0.0064	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0032	0.00032	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00023	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00028	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00022	1
Cyclohexane	ND		mg/kg	0.016	0.00087	1
Bromochloromethane	ND		mg/kg	0.0032	0.00033	1
Chloroform	ND		mg/kg	0.0024	0.00022	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00037	1
1,1,1-Trichloroethane	ND		mg/kg	0.00080	0.00027	1
2-Butanone	ND		mg/kg	0.016	0.0036	1
Benzene	ND		mg/kg	0.00080	0.00026	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00041	1
Methyl cyclohexane	ND		mg/kg	0.0064	0.00096	1
Trichloroethene	ND		mg/kg	0.00080	0.00022	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00020	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-12
Client ID: DUP-S
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00080	0.00017	1
1,4-Dioxane	ND		mg/kg	0.13	0.056	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00080	0.00025	1
Toluene	ND		mg/kg	0.0016	0.00087	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0020	1
Tetrachloroethene	ND		mg/kg	0.00080	0.00031	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00044	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00080	0.00025	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00043	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00022	1
1,2-Dibromoethane	ND		mg/kg	0.00080	0.00047	1
2-Hexanone	ND		mg/kg	0.016	0.0019	1
Chlorobenzene	ND		mg/kg	0.00080	0.00020	1
Ethylbenzene	ND		mg/kg	0.0016	0.00022	1
p/m-Xylene	ND		mg/kg	0.0032	0.00090	1
o-Xylene	ND		mg/kg	0.0016	0.00046	1
Xylenes, Total	ND		mg/kg	0.0016	0.00046	1
Styrene	ND		mg/kg	0.0016	0.00031	1
Bromoform	ND		mg/kg	0.0064	0.00039	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00017	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00080	0.00026	1
1,3-Dichlorobenzene	ND		mg/kg	0.0032	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0032	0.00027	1
1,2-Dichlorobenzene	ND		mg/kg	0.0032	0.00023	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0048	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0032	0.00044	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0032	0.00052	1

Tentatively Identified Compounds				
Total TIC Compounds	0.00542	J	mg/kg	1
Cyclopentane	0.00542	NJ	mg/kg	1

Project Name: ALLIANCE 51ST **Lab Number:** L2441149

Project Number: 30108678.07 **Report Date:** 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-12 Date Collected: 07/22/24 00:00

Client ID: DUP-S Date Received: 07/22/24

Sample Location: 51ST ST. PHILA PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-13
Client ID: DEP51-W1
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/26/24 08:49
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.8	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-13
Client ID: DEP51-W1
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	123		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-13
Client ID: DEP51-W1
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/26/24 08:49
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-14
Client ID: DEP51-W2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/26/24 09:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.7	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-14
Client ID: DEP51-W2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	124		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-14
Client ID: DEP51-W2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/26/24 09:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-15
Client ID: DEP51-W3
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 12:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/26/24 09:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-15
Client ID: DEP51-W3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	121		70-130

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-15
Client ID: DEP51-W3
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 12:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/26/24 09:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-16
Client ID: DEP51-W4
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 13:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/26/24 10:00
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.6	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-16
Client ID: DEP51-W4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 13:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	123		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-16
Client ID: DEP51-W4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 13:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/26/24 10:00
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-17
Client ID: DUP-W
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/26/24 10:24
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.7	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-17
Client ID: DUP-W
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	121		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-17
Client ID: DUP-W
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/26/24 10:24
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/24/24 16:50
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-12 Batch: WG1951348-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/24/24 16:50
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-12 Batch: WG1951348-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/24/24 16:50
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-12 Batch: WG1951348-5					
Tentatively Identified Compounds					
Total TIC Compounds	0.00370	J	mg/kg		
Unknown	0.00370	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/26/24 07:37
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13-17 Batch: WG1952468-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/26/24 07:37
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13-17 Batch: WG1952468-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/26/24 07:37
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13-17 Batch: WG1952468-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	120		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/26/24 07:37
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13-17 Batch: WG1952470-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
4-Bromofluorobenzene	90		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-12 Batch: WG1951348-3 WG1951348-4								
Dichlorodifluoromethane	84		81		30-146	4		30
Chloromethane	79		77		52-130	3		30
Vinyl chloride	110		106		67-130	4		30
Bromomethane	114		117		57-147	3		30
Chloroethane	95		98		50-151	3		30
Trichlorofluoromethane	111		109		70-139	2		30
1,1-Dichloroethene	105		102		65-135	3		30
Carbon disulfide	101		98		59-130	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	111		109		50-139	2		30
Methylene chloride	94		92		70-130	2		30
Acetone	75		74		54-140	1		30
trans-1,2-Dichloroethene	95		100		70-130	5		30
Methyl Acetate	70		75		51-146	7		30
Methyl tert butyl ether	100		105		66-130	5		30
1,1-Dichloroethane	96		94		70-130	2		30
cis-1,2-Dichloroethene	94		92		70-130	2		30
Cyclohexane	105		95		59-142	10		30
Bromochloromethane	99		91		70-130	8		30
Chloroform	97		90		70-130	7		30
Carbon tetrachloride	100		93		70-130	7		30
1,1,1-Trichloroethane	101		95		70-130	6		30
2-Butanone	80		73		70-130	9		30
Benzene	107		95		70-130	12		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-12 Batch: WG1951348-3 WG1951348-4								
1,2-Dichloroethane	92		86		70-130	7		30
Methyl cyclohexane	106		105		70-130	1		30
Trichloroethene	99		98		70-130	1		30
1,2-Dichloropropane	103		104		70-130	1		30
Bromodichloromethane	95		94		70-130	1		30
1,4-Dioxane	110		108		65-136	2		30
cis-1,3-Dichloropropene	101		99		70-130	2		30
Toluene	113		106		70-130	6		30
4-Methyl-2-pentanone	106		101		70-130	5		30
Tetrachloroethene	112		111		70-130	1		30
trans-1,3-Dichloropropene	106		103		70-130	3		30
1,1,2-Trichloroethane	99		97		70-130	2		30
Dibromochloromethane	104		103		70-130	1		30
1,2-Dibromoethane	100		97		70-130	3		30
2-Hexanone	84		79		70-130	6		30
Chlorobenzene	109		106		70-130	3		30
Ethylbenzene	111		104		70-130	7		30
p/m-Xylene	114		104		70-130	9		30
o-Xylene	111		94		70-130	17		30
Styrene	112		98		70-130	13		30
Bromoform	105		98		70-130	7		30
Isopropylbenzene	116		109		70-130	6		30
1,1,2,2-Tetrachloroethane	106		81		70-130	27		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-12 Batch: WG1951348-3 WG1951348-4								
1,3-Dichlorobenzene	111		108		70-130	3		30
1,4-Dichlorobenzene	108		107		70-130	1		30
1,2-Dichlorobenzene	106		105		70-130	1		30
1,2-Dibromo-3-chloropropane	100		97		68-130	3		30
1,2,4-Trichlorobenzene	127		129		70-130	2		30
1,2,3-Trichlorobenzene	119		117		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		84		70-130
Toluene-d8	103		100		70-130
4-Bromofluorobenzene	102		80		70-130
Dibromofluoromethane	94		88		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-17 Batch: WG1952468-3 WG1952468-4								
Dichlorodifluoromethane	65		64		36-147	2		20
Chloromethane	91		89		64-130	2		20
Vinyl chloride	80		79		55-140	1		20
Bromomethane	60		60		39-139	0		20
Chloroethane	84		81		55-138	4		20
Trichlorofluoromethane	100		100		62-150	0		20
1,1-Dichloroethene	99		100		61-145	1		20
Carbon disulfide	99		96		51-130	3		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		70-130	0		20
Methylene chloride	99		98		70-130	1		20
Acetone	120		120		58-148	0		20
trans-1,2-Dichloroethene	99		99		70-130	0		20
Methyl Acetate	120		120		70-130	0		20
Methyl tert butyl ether	120		120		63-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Cyclohexane	98		97		70-130	1		20
Bromochloromethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
2-Butanone	110		130		63-138	17		20
Benzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-17 Batch: WG1952468-3 WG1952468-4								
1,2-Dichloroethane	110		110		70-130	0		20
Methyl cyclohexane	99		97		70-130	2		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichloropropane	98		98		70-130	0		20
Bromodichloromethane	100		100		67-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Toluene	93		92		70-130	1		20
Tetrachloroethene	90		88		70-130	2		20
4-Methyl-2-pentanone	88		90		59-130	2		20
trans-1,3-Dichloropropene	96		98		70-130	2		20
1,1,2-Trichloroethane	97		94		70-130	3		20
Dibromochloromethane	92		91		63-130	1		20
1,2-Dibromoethane	98		99		70-130	1		20
2-Hexanone	89		94		57-130	5		20
Chlorobenzene	93		93		75-130	0		20
Ethylbenzene	87		88		70-130	1		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	80		80		70-130	0		20
Styrene	80		80		70-130	0		20
Bromoform	76		75		54-136	1		20
Isopropylbenzene	72		72		70-130	0		20
1,3-Dichlorobenzene	92		88		70-130	4		20
1,4-Dichlorobenzene	81		83		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-17 Batch: WG1952468-3 WG1952468-4								
1,2-Dichlorobenzene	83		82		70-130	1		20
1,2-Dibromo-3-chloropropane	81		85		41-144	5		20
1,2,4-Trichlorobenzene	72		72		70-130	0		20
1,2,3-Trichlorobenzene	77		75		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
Toluene-d8	98		100		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	108		107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13-17 Batch: WG1952470-3 WG1952470-4								
1,4-Dioxane	120		120		70-130	0		25
1,1,2,2-Tetrachloroethane	108		112		70-130	4		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		110		70-130
4-Bromofluorobenzene	91		89		70-130

METALS

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-01
Client ID: DEP51-S1
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4600		mg/kg	7.78	2.10	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	3.89	0.296	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Arsenic, Total	3.62		mg/kg	0.778	0.162	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Barium, Total	65.3		mg/kg	0.778	0.135	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.295	J	mg/kg	0.389	0.026	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.113	J	mg/kg	0.778	0.076	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Calcium, Total	30400		mg/kg	7.78	2.72	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Chromium, Total	332		mg/kg	0.778	0.075	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Cobalt, Total	5.95		mg/kg	1.56	0.129	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Copper, Total	17.9		mg/kg	0.778	0.201	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Iron, Total	11400		mg/kg	3.89	0.702	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Lead, Total	66.1		mg/kg	3.89	0.208	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Magnesium, Total	3580		mg/kg	7.78	1.20	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Manganese, Total	203		mg/kg	0.778	0.124	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Mercury, Total	0.065		mg/kg	0.065	0.042	1	07/23/24 09:30	07/23/24 10:51	EPA 7471B	1,7471B	MJR
Nickel, Total	20.4		mg/kg	1.94	0.188	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Potassium, Total	2100		mg/kg	194	11.2	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	1.56	0.201	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.389	0.220	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Sodium, Total	69.5	J	mg/kg	156	2.45	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Thallium, Total	0.605	J	mg/kg	1.56	0.245	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Vanadium, Total	21.1		mg/kg	0.778	0.158	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Zinc, Total	114		mg/kg	3.89	0.228	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	332	J	mg/kg	0.809	0.162	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-02
Client ID: DEP51-S2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:45
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8440		mg/kg	8.18	2.21	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.09	0.311	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Arsenic, Total	5.70		mg/kg	0.818	0.170	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Barium, Total	88.0		mg/kg	0.818	0.142	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.370	J	mg/kg	0.409	0.027	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.206	J	mg/kg	0.818	0.080	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Calcium, Total	32300		mg/kg	8.18	2.86	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Chromium, Total	834		mg/kg	0.818	0.079	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Cobalt, Total	10.2		mg/kg	1.64	0.136	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Copper, Total	20.6		mg/kg	0.818	0.211	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Iron, Total	17900		mg/kg	4.09	0.739	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Lead, Total	59.4		mg/kg	4.09	0.219	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Magnesium, Total	5640		mg/kg	8.18	1.26	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Manganese, Total	301		mg/kg	0.818	0.130	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Mercury, Total	0.063	J	mg/kg	0.067	0.043	1	07/23/24 09:30	07/23/24 10:55	EPA 7471B	1,7471B	MJR
Nickel, Total	38.6		mg/kg	2.04	0.198	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Potassium, Total	3810		mg/kg	204	11.8	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Selenium, Total	0.212	J	mg/kg	1.64	0.211	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.409	0.232	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Sodium, Total	114	J	mg/kg	164	2.58	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Thallium, Total	1.00	J	mg/kg	1.64	0.258	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Vanadium, Total	35.4		mg/kg	0.818	0.166	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Zinc, Total	162		mg/kg	4.09	0.240	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	830		mg/kg	0.851	0.170	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-03
Client ID: DEP51-S3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:50
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13400		mg/kg	8.06	2.18	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.03	0.306	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Arsenic, Total	9.04		mg/kg	0.806	0.168	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Barium, Total	137		mg/kg	0.806	0.140	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.570		mg/kg	0.403	0.027	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.289	J	mg/kg	0.806	0.079	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Calcium, Total	42800		mg/kg	8.06	2.82	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Chromium, Total	1240		mg/kg	0.806	0.077	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Cobalt, Total	14.3		mg/kg	1.61	0.134	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Copper, Total	40.5		mg/kg	0.806	0.208	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Iron, Total	23500		mg/kg	4.03	0.728	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Lead, Total	110		mg/kg	4.03	0.216	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Magnesium, Total	8260		mg/kg	8.06	1.24	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Manganese, Total	437		mg/kg	0.806	0.128	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Mercury, Total	0.137		mg/kg	0.066	0.043	1	07/23/24 09:30	07/23/24 10:58	EPA 7471B	1,7471B	MJR
Nickel, Total	55.8		mg/kg	2.01	0.195	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Potassium, Total	6180		mg/kg	201	11.6	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Selenium, Total	0.328	J	mg/kg	1.61	0.208	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.403	0.228	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Sodium, Total	176		mg/kg	161	2.54	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Thallium, Total	1.58	J	mg/kg	1.61	0.254	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Vanadium, Total	54.2		mg/kg	0.806	0.164	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Zinc, Total	252		mg/kg	4.03	0.236	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1240		mg/kg	0.826	0.165	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-04
Client ID: DEP51-S4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10900		mg/kg	7.86	2.12	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Antimony, Total	0.767	J	mg/kg	3.93	0.299	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Arsenic, Total	9.50		mg/kg	0.786	0.164	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Barium, Total	118		mg/kg	0.786	0.137	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.518		mg/kg	0.393	0.026	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.389	J	mg/kg	0.786	0.077	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Calcium, Total	24400		mg/kg	7.86	2.75	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Chromium, Total	890		mg/kg	0.786	0.076	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Cobalt, Total	13.4		mg/kg	1.57	0.130	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Copper, Total	44.9		mg/kg	0.786	0.203	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Iron, Total	24700		mg/kg	3.93	0.710	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Lead, Total	201		mg/kg	3.93	0.211	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Magnesium, Total	7410		mg/kg	7.86	1.21	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Manganese, Total	496		mg/kg	0.786	0.125	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Mercury, Total	0.121		mg/kg	0.065	0.042	1	07/23/24 09:30	07/23/24 11:08	EPA 7471B	1,7471B	MJR
Nickel, Total	48.4		mg/kg	1.97	0.190	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Potassium, Total	4460		mg/kg	197	11.3	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Selenium, Total	0.450	J	mg/kg	1.57	0.203	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Silver, Total	0.234	J	mg/kg	0.393	0.222	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Sodium, Total	169		mg/kg	157	2.48	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Thallium, Total	1.10	J	mg/kg	1.57	0.248	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Vanadium, Total	43.8		mg/kg	0.786	0.160	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Zinc, Total	299		mg/kg	3.93	0.230	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	890		mg/kg	0.827	0.165	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-05
Client ID: DEP51-S5
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8300		mg/kg	10.2	2.76	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Antimony, Total	1.68	J	mg/kg	5.12	0.389	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Arsenic, Total	6.80		mg/kg	1.02	0.213	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Barium, Total	121		mg/kg	1.02	0.178	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.411	J	mg/kg	0.512	0.034	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.379	J	mg/kg	1.02	0.100	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Calcium, Total	9870		mg/kg	10.2	3.58	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Chromium, Total	559		mg/kg	1.02	0.098	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Cobalt, Total	9.38		mg/kg	2.05	0.170	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Copper, Total	54.8		mg/kg	1.02	0.264	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Iron, Total	21600		mg/kg	5.12	0.924	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Lead, Total	2330		mg/kg	5.12	0.274	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Magnesium, Total	5450		mg/kg	10.2	1.58	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Manganese, Total	371		mg/kg	1.02	0.163	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Mercury, Total	0.059	J	mg/kg	0.086	0.056	1	07/23/24 09:30	07/23/24 11:11	EPA 7471B	1,7471B	MJR
Nickel, Total	29.6		mg/kg	2.56	0.248	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Potassium, Total	4200		mg/kg	256	14.7	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Selenium, Total	0.587	J	mg/kg	2.05	0.264	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.512	0.290	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Sodium, Total	146	J	mg/kg	205	3.22	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Thallium, Total	0.685	J	mg/kg	2.05	0.322	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Vanadium, Total	29.8		mg/kg	1.02	0.208	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Zinc, Total	387		mg/kg	5.12	0.300	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	559		mg/kg	1.08	0.217	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-06
Client ID: DEP51-S6
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6380		mg/kg	9.65	2.60	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Antimony, Total	4.00	J	mg/kg	4.82	0.366	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Arsenic, Total	12.9		mg/kg	0.965	0.201	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Barium, Total	115		mg/kg	0.965	0.168	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.372	J	mg/kg	0.482	0.032	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.517	J	mg/kg	0.965	0.095	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Calcium, Total	12800		mg/kg	9.65	3.38	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Chromium, Total	311		mg/kg	0.965	0.093	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Cobalt, Total	8.70		mg/kg	1.93	0.160	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Copper, Total	93.9		mg/kg	0.965	0.249	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Iron, Total	36800		mg/kg	4.82	0.871	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Lead, Total	290		mg/kg	4.82	0.258	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Magnesium, Total	3390		mg/kg	9.65	1.48	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Manganese, Total	394		mg/kg	0.965	0.153	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Mercury, Total	0.225		mg/kg	0.079	0.051	1	07/23/24 09:30	07/23/24 11:15	EPA 7471B	1,7471B	MJR
Nickel, Total	31.3		mg/kg	2.41	0.233	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Potassium, Total	2040		mg/kg	241	13.9	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Selenium, Total	0.971	J	mg/kg	1.93	0.249	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Silver, Total	0.369	J	mg/kg	0.482	0.273	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Sodium, Total	148	J	mg/kg	193	3.04	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Thallium, Total	0.594	J	mg/kg	1.93	0.304	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Vanadium, Total	27.2		mg/kg	0.965	0.196	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Zinc, Total	210		mg/kg	4.82	0.283	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	311		mg/kg	0.990	0.198	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-07
Client ID: DEP51-S7
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10900		mg/kg	10.4	2.80	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Antimony, Total	0.464	J	mg/kg	5.18	0.394	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Arsenic, Total	8.85		mg/kg	1.04	0.215	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Barium, Total	117		mg/kg	1.04	0.180	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.531		mg/kg	0.518	0.034	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.304	J	mg/kg	1.04	0.102	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Calcium, Total	11600		mg/kg	10.4	3.62	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Chromium, Total	433		mg/kg	1.04	0.099	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Cobalt, Total	12.2		mg/kg	2.07	0.172	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Copper, Total	41.5		mg/kg	1.04	0.267	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Iron, Total	22600		mg/kg	5.18	0.935	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Lead, Total	140		mg/kg	5.18	0.278	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Magnesium, Total	6740		mg/kg	10.4	1.60	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Manganese, Total	526		mg/kg	1.04	0.165	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Mercury, Total	0.090		mg/kg	0.086	0.056	1	07/23/24 09:30	07/23/24 11:18	EPA 7471B	1,7471B	MJR
Nickel, Total	35.1		mg/kg	2.59	0.251	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Potassium, Total	5090		mg/kg	259	14.9	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Selenium, Total	0.448	J	mg/kg	2.07	0.267	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.518	0.293	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Sodium, Total	178	J	mg/kg	207	3.26	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Thallium, Total	1.04	J	mg/kg	2.07	0.326	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Vanadium, Total	38.4		mg/kg	1.04	0.210	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Zinc, Total	230		mg/kg	5.18	0.304	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	433	J	mg/kg	1.09	0.218	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-08
Client ID: DEP51-S8
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:20
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12500		mg/kg	12.6	3.40	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Antimony, Total	20.8		mg/kg	6.30	0.479	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Arsenic, Total	13.9		mg/kg	1.26	0.262	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Barium, Total	146		mg/kg	1.26	0.219	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.622	J	mg/kg	0.630	0.042	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.469	J	mg/kg	1.26	0.124	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Calcium, Total	37700		mg/kg	12.6	4.41	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Chromium, Total	1110		mg/kg	1.26	0.121	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Cobalt, Total	16.0		mg/kg	2.52	0.209	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Copper, Total	59.7		mg/kg	1.26	0.325	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Iron, Total	28000		mg/kg	6.30	1.14	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Lead, Total	474		mg/kg	6.30	0.338	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Magnesium, Total	8690		mg/kg	12.6	1.94	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Manganese, Total	575		mg/kg	1.26	0.200	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Mercury, Total	0.155		mg/kg	0.105	0.069	1	07/23/24 09:30	07/23/24 11:21	EPA 7471B	1,7471B	MJR
Nickel, Total	59.1		mg/kg	3.15	0.305	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Potassium, Total	5120		mg/kg	315	18.2	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Selenium, Total	0.862	J	mg/kg	2.52	0.325	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.630	0.357	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Sodium, Total	233	J	mg/kg	252	3.97	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Thallium, Total	1.26	J	mg/kg	2.52	0.397	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Vanadium, Total	52.2		mg/kg	1.26	0.256	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Zinc, Total	407		mg/kg	6.30	0.370	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1110		mg/kg	1.33	0.265	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-09
Client ID: DEP51-S9
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:25
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10200		mg/kg	9.46	2.55	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Antimony, Total	0.698	J	mg/kg	4.73	0.360	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Arsenic, Total	10.3		mg/kg	0.946	0.197	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Barium, Total	110		mg/kg	0.946	0.165	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.592		mg/kg	0.473	0.031	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.452	J	mg/kg	0.946	0.093	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Calcium, Total	14800		mg/kg	9.46	3.31	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Chromium, Total	491		mg/kg	0.946	0.091	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Cobalt, Total	13.0		mg/kg	1.89	0.157	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Copper, Total	50.0		mg/kg	0.946	0.244	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Iron, Total	33900		mg/kg	4.73	0.854	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Lead, Total	1120		mg/kg	4.73	0.254	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Magnesium, Total	7190		mg/kg	9.46	1.46	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Manganese, Total	558		mg/kg	0.946	0.150	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Mercury, Total	0.102		mg/kg	0.079	0.052	1	07/23/24 09:30	07/23/24 11:25	EPA 7471B	1,7471B	MJR
Nickel, Total	35.6		mg/kg	2.36	0.229	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Potassium, Total	3670		mg/kg	236	13.6	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Selenium, Total	0.669	J	mg/kg	1.89	0.244	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Silver, Total	0.286	J	mg/kg	0.473	0.268	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Sodium, Total	172	J	mg/kg	189	2.98	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Thallium, Total	0.900	J	mg/kg	1.89	0.298	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Vanadium, Total	35.7		mg/kg	0.946	0.192	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Zinc, Total	363		mg/kg	4.73	0.277	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	491		mg/kg	0.990	0.198	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-10
Client ID: DEP51-S10
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11200		mg/kg	13.1	3.54	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Antimony, Total	0.777	J	mg/kg	6.56	0.499	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Arsenic, Total	13.8		mg/kg	1.31	0.273	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Barium, Total	119		mg/kg	1.31	0.228	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.668		mg/kg	0.656	0.043	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.481	J	mg/kg	1.31	0.129	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Calcium, Total	19900		mg/kg	13.1	4.59	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Chromium, Total	1030		mg/kg	1.31	0.126	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Cobalt, Total	16.0		mg/kg	2.62	0.218	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Copper, Total	60.7		mg/kg	1.31	0.338	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Iron, Total	24900		mg/kg	6.56	1.18	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Lead, Total	242		mg/kg	6.56	0.352	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Magnesium, Total	9220		mg/kg	13.1	2.02	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Manganese, Total	656		mg/kg	1.31	0.209	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Mercury, Total	0.219		mg/kg	0.107	0.070	1	07/23/24 09:30	07/23/24 11:28	EPA 7471B	1,7471B	MJR
Nickel, Total	52.2		mg/kg	3.28	0.318	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Potassium, Total	3410		mg/kg	328	18.9	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Selenium, Total	0.754	J	mg/kg	2.62	0.338	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.656	0.371	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Sodium, Total	227	J	mg/kg	262	4.13	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Thallium, Total	0.819	J	mg/kg	2.62	0.413	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Vanadium, Total	50.5		mg/kg	1.31	0.266	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Zinc, Total	343		mg/kg	6.56	0.384	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1030		mg/kg	1.33	0.267	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-11
Client ID: DEP51-S11
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:40
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9980		mg/kg	8.99	2.43	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Antimony, Total	1.09	J	mg/kg	4.50	0.342	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Arsenic, Total	7.01		mg/kg	0.899	0.187	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Barium, Total	104		mg/kg	0.899	0.156	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.619		mg/kg	0.450	0.030	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.425	J	mg/kg	0.899	0.088	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Calcium, Total	8320		mg/kg	8.99	3.15	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Chromium, Total	101		mg/kg	0.899	0.086	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Cobalt, Total	9.09		mg/kg	1.80	0.149	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Copper, Total	50.9		mg/kg	0.899	0.232	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Iron, Total	20700		mg/kg	4.50	0.812	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Lead, Total	185		mg/kg	4.50	0.241	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Magnesium, Total	5450		mg/kg	8.99	1.38	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Manganese, Total	412		mg/kg	0.899	0.143	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Mercury, Total	0.202		mg/kg	0.074	0.048	1	07/23/24 09:30	07/23/24 11:31	EPA 7471B	1,7471B	MJR
Nickel, Total	18.6		mg/kg	2.25	0.218	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Potassium, Total	1830		mg/kg	225	12.9	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Selenium, Total	0.291	J	mg/kg	1.80	0.232	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Silver, Total	0.448	J	mg/kg	0.450	0.254	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Sodium, Total	221		mg/kg	180	2.83	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Thallium, Total	0.538	J	mg/kg	1.80	0.283	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Vanadium, Total	33.9		mg/kg	0.899	0.182	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Zinc, Total	222		mg/kg	4.50	0.263	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	101		mg/kg	0.928	0.186	1		07/24/24 04:07	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-12
Client ID: DUP-S
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6280		mg/kg	9.76	2.63	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Antimony, Total	4.16	J	mg/kg	4.88	0.371	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Arsenic, Total	16.9		mg/kg	0.976	0.203	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Barium, Total	122		mg/kg	0.976	0.170	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.409	J	mg/kg	0.488	0.032	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.488	J	mg/kg	0.976	0.096	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Calcium, Total	11600		mg/kg	9.76	3.42	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Chromium, Total	305		mg/kg	0.976	0.094	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Cobalt, Total	7.75		mg/kg	1.95	0.162	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Copper, Total	83.2		mg/kg	0.976	0.252	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Iron, Total	28400		mg/kg	4.88	0.881	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Lead, Total	236		mg/kg	4.88	0.261	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Magnesium, Total	3150		mg/kg	9.76	1.50	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Manganese, Total	316		mg/kg	0.976	0.155	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Mercury, Total	0.249		mg/kg	0.082	0.053	1	07/23/24 09:30	07/23/24 11:35	EPA 7471B	1,7471B	MJR
Nickel, Total	28.1		mg/kg	2.44	0.236	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Potassium, Total	1840		mg/kg	244	14.0	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Selenium, Total	0.546	J	mg/kg	1.95	0.252	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Silver, Total	0.335	J	mg/kg	0.488	0.276	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Sodium, Total	152	J	mg/kg	195	3.07	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Thallium, Total	0.617	J	mg/kg	1.95	0.307	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Vanadium, Total	25.3		mg/kg	0.976	0.198	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Zinc, Total	192		mg/kg	4.88	0.286	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	305		mg/kg	1.04	0.208	1		07/24/24 04:07	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-13
Client ID: DEP51-W1
Sample Location: 51ST ST. PHILA PA
Sample Depth:
Matrix: Water

Date Collected: 07/22/24 12:05
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	60.9		ug/l	10.0	3.27	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Antimony, Total	1.215	J	ug/l	4.000	0.4290	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Arsenic, Total	0.9562		ug/l	0.5000	0.1650	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Barium, Total	45.70		ug/l	0.5000	0.1730	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Calcium, Total	31100		ug/l	100.	39.4	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Chromium, Total	0.3406	J	ug/l	1.000	0.1780	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Cobalt, Total	0.3777	J	ug/l	0.5000	0.1630	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Copper, Total	3.167		ug/l	1.000	0.3840	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Iron, Total	169.		ug/l	50.0	19.1	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Lead, Total	1.069		ug/l	1.000	0.3430	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Magnesium, Total	12100		ug/l	70.0	24.2	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Manganese, Total	45.85		ug/l	1.000	0.4400	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Mercury, Total	0.1050	J	ug/l	0.2000	0.0915	1	07/23/24 08:20	07/23/24 11:43	EPA 7470A	1,7470A	MJR
Nickel, Total	1.761	J	ug/l	2.000	0.5560	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Potassium, Total	3820		ug/l	100.	30.9	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Selenium, Total	ND		ug/l	5.00	1.73	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Silver, Total	ND		ug/l	0.4000	0.1630	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Sodium, Total	28800		ug/l	100.	29.3	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Thallium, Total	ND		ug/l	1.000	0.1430	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Vanadium, Total	ND		ug/l	5.000	1.570	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Zinc, Total	7.520	J	ug/l	10.00	3.410	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		07/23/24 11:24	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-13
Client ID: DEP51-W1
Sample Location: 51ST ST. PHILA PA
Sample Depth:
Matrix: Water

Date Collected: 07/22/24 12:05
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	8.49	J	ug/l	10.0	3.27	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.6591	J	ug/l	4.000	0.4290	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.9911		ug/l	0.5000	0.1650	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Barium, Dissolved	43.00		ug/l	0.5000	0.1730	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		ug/l	0.5000	0.1070	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	ND		ug/l	0.2000	0.0599	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	31500		ug/l	100.	39.4	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.2748	J	ug/l	1.000	0.1780	1	07/24/24 06:03	07/24/24 11:30	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.2237	J	ug/l	0.5000	0.1630	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Copper, Dissolved	2.925		ug/l	1.000	0.3840	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Iron, Dissolved	50.1		ug/l	50.0	19.1	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	12000		ug/l	70.0	24.2	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	4.750		ug/l	1.000	0.4400	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		ug/l	0.2000	0.0915	1	07/24/24 06:55	07/24/24 09:57	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	2.390		ug/l	2.000	0.5560	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3890		ug/l	100.	30.9	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		ug/l	5.00	1.73	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		ug/l	0.4000	0.1630	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	28000		ug/l	100.	29.3	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		ug/l	1.000	0.1430	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		ug/l	5.000	1.570	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	3.552	J	ug/l	10.00	3.410	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-14
Client ID: DEP51-W2
Sample Location: 51ST ST. PHILA PA
Sample Depth:
Matrix: Water

Date Collected: 07/22/24 12:10
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	36.1		ug/l	10.0	3.27	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Antimony, Total	0.5472	J	ug/l	4.000	0.4290	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Arsenic, Total	0.9875		ug/l	0.5000	0.1650	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Barium, Total	44.09		ug/l	0.5000	0.1730	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Calcium, Total	30500		ug/l	100.	39.4	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Chromium, Total	0.2938	J	ug/l	1.000	0.1780	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Cobalt, Total	0.3086	J	ug/l	0.5000	0.1630	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Copper, Total	2.672		ug/l	1.000	0.3840	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Iron, Total	112.		ug/l	50.0	19.1	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Lead, Total	0.5946	J	ug/l	1.000	0.3430	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Magnesium, Total	12000		ug/l	70.0	24.2	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Manganese, Total	38.67		ug/l	1.000	0.4400	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Mercury, Total	0.2490		ug/l	0.2000	0.0915	1	07/23/24 08:20	07/23/24 11:33	EPA 7470A	1,7470A	MJR
Nickel, Total	1.719	J	ug/l	2.000	0.5560	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Potassium, Total	3740		ug/l	100.	30.9	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Selenium, Total	ND		ug/l	5.00	1.73	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Silver, Total	ND		ug/l	0.4000	0.1630	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Sodium, Total	28500		ug/l	100.	29.3	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Thallium, Total	ND		ug/l	1.000	0.1430	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Vanadium, Total	ND		ug/l	5.000	1.570	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Zinc, Total	5.536	J	ug/l	10.00	3.410	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		07/23/24 11:47	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-14
Client ID: DEP51-W2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	8.44	J	ug/l	10.0	3.27	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	1.200	J	ug/l	4.000	0.4290	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	1.043		ug/l	0.5000	0.1650	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Barium, Dissolved	41.81		ug/l	0.5000	0.1730	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		ug/l	0.5000	0.1070	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	ND		ug/l	0.2000	0.0599	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	30400		ug/l	100.	39.4	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.2298	J	ug/l	1.000	0.1780	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.1692	J	ug/l	0.5000	0.1630	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Copper, Dissolved	2.313		ug/l	1.000	0.3840	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Iron, Dissolved	31.4	J	ug/l	50.0	19.1	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	11600		ug/l	70.0	24.2	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	5.665		ug/l	1.000	0.4400	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		ug/l	0.2000	0.0915	1	07/24/24 06:55	07/24/24 09:47	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	1.705	J	ug/l	2.000	0.5560	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3900		ug/l	100.	30.9	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		ug/l	5.00	1.73	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		ug/l	0.4000	0.1630	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	27100		ug/l	100.	29.3	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	0.1919	J	ug/l	1.000	0.1430	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		ug/l	5.000	1.570	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	3.568	J	ug/l	10.00	3.410	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-15
Client ID: DEP51-W3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	41.0		ug/l	10.0	3.27	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Antimony, Total	0.4983	J	ug/l	4.000	0.4290	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Arsenic, Total	0.9090		ug/l	0.5000	0.1650	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Barium, Total	42.13		ug/l	0.5000	0.1730	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Calcium, Total	30000		ug/l	100.	39.4	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Chromium, Total	0.2700	J	ug/l	1.000	0.1780	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Cobalt, Total	0.3100	J	ug/l	0.5000	0.1630	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Copper, Total	2.474		ug/l	1.000	0.3840	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Iron, Total	129.		ug/l	50.0	19.1	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Lead, Total	0.6150	J	ug/l	1.000	0.3430	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Magnesium, Total	11500		ug/l	70.0	24.2	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Manganese, Total	41.98		ug/l	1.000	0.4400	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Mercury, Total	0.0920	J	ug/l	0.2000	0.0915	1	07/23/24 08:20	07/23/24 11:46	EPA 7470A	1,7470A	MJR
Nickel, Total	1.577	J	ug/l	2.000	0.5560	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Potassium, Total	3680		ug/l	100.	30.9	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Selenium, Total	ND		ug/l	5.00	1.73	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Silver, Total	ND		ug/l	0.4000	0.1630	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Sodium, Total	26800		ug/l	100.	29.3	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Thallium, Total	ND		ug/l	1.000	0.1430	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Vanadium, Total	ND		ug/l	5.000	1.570	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Zinc, Total	7.010	J	ug/l	10.00	3.410	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		07/23/24 11:51	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-15
Client ID: DEP51-W3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	8.42	J	ug/l	10.0	3.27	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.7665	J	ug/l	4.000	0.4290	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.9474		ug/l	0.5000	0.1650	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Barium, Dissolved	41.30		ug/l	0.5000	0.1730	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		ug/l	0.5000	0.1070	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	ND		ug/l	0.2000	0.0599	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	29700		ug/l	100.	39.4	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.2059	J	ug/l	1.000	0.1780	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.1663	J	ug/l	0.5000	0.1630	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Copper, Dissolved	2.164		ug/l	1.000	0.3840	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Iron, Dissolved	28.9	J	ug/l	50.0	19.1	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	11400		ug/l	70.0	24.2	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	5.916		ug/l	1.000	0.4400	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		ug/l	0.2000	0.0915	1	07/24/24 06:55	07/24/24 10:00	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	1.638	J	ug/l	2.000	0.5560	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3690		ug/l	100.	30.9	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		ug/l	5.00	1.73	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		ug/l	0.4000	0.1630	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	26400		ug/l	100.	29.3	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		ug/l	1.000	0.1430	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		ug/l	5.000	1.570	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	3.439	J	ug/l	10.00	3.410	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-16
Client ID: DEP51-W4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 13:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	44.3		ug/l	10.0	3.27	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Antimony, Total	0.4872	J	ug/l	4.000	0.4290	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Arsenic, Total	0.9654		ug/l	0.5000	0.1650	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Barium, Total	44.53		ug/l	0.5000	0.1730	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Calcium, Total	30200		ug/l	100.	39.4	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Chromium, Total	0.2745	J	ug/l	1.000	0.1780	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Cobalt, Total	0.3318	J	ug/l	0.5000	0.1630	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Copper, Total	2.706		ug/l	1.000	0.3840	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Iron, Total	143.		ug/l	50.0	19.1	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Lead, Total	0.7412	J	ug/l	1.000	0.3430	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Magnesium, Total	11600		ug/l	70.0	24.2	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Manganese, Total	44.83		ug/l	1.000	0.4400	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Mercury, Total	ND		ug/l	0.2000	0.0915	1	07/23/24 08:20	07/23/24 11:50	EPA 7470A	1,7470A	MJR
Nickel, Total	1.630	J	ug/l	2.000	0.5560	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Potassium, Total	3730		ug/l	100.	30.9	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Selenium, Total	ND		ug/l	5.00	1.73	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Silver, Total	ND		ug/l	0.4000	0.1630	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Sodium, Total	27900		ug/l	100.	29.3	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Thallium, Total	ND		ug/l	1.000	0.1430	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Vanadium, Total	ND		ug/l	5.000	1.570	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Zinc, Total	5.595	J	ug/l	10.00	3.410	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		07/23/24 11:56	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-16
Client ID: DEP51-W4
Sample Location: 51ST ST. PHILA PA
Sample Depth:
Matrix: Water

Date Collected: 07/22/24 13:00
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	8.57	J	ug/l	10.0	3.27	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.8044	J	ug/l	4.000	0.4290	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.9409		ug/l	0.5000	0.1650	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Barium, Dissolved	41.26		ug/l	0.5000	0.1730	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		ug/l	0.5000	0.1070	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	ND		ug/l	0.2000	0.0599	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	29700		ug/l	100.	39.4	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.2308	J	ug/l	1.000	0.1780	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.1872	J	ug/l	0.5000	0.1630	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Copper, Dissolved	2.307		ug/l	1.000	0.3840	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Iron, Dissolved	30.2	J	ug/l	50.0	19.1	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	11600		ug/l	70.0	24.2	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	5.980		ug/l	1.000	0.4400	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		ug/l	0.2000	0.0915	1	07/24/24 06:55	07/24/24 10:03	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	1.725	J	ug/l	2.000	0.5560	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3720		ug/l	100.	30.9	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		ug/l	5.00	1.73	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		ug/l	0.4000	0.1630	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	27100		ug/l	100.	29.3	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		ug/l	1.000	0.1430	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		ug/l	5.000	1.570	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	3.950	J	ug/l	10.00	3.410	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-17
Client ID: DUP-W
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	41.0		ug/l	10.0	3.27	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Antimony, Total	0.4810	J	ug/l	4.000	0.4290	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Arsenic, Total	0.9336		ug/l	0.5000	0.1650	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Barium, Total	44.93		ug/l	0.5000	0.1730	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Calcium, Total	31600		ug/l	100.	39.4	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Chromium, Total	0.2831	J	ug/l	1.000	0.1780	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Cobalt, Total	0.3182	J	ug/l	0.5000	0.1630	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Copper, Total	2.737		ug/l	1.000	0.3840	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Iron, Total	141.		ug/l	50.0	19.1	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Lead, Total	0.6885	J	ug/l	1.000	0.3430	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Magnesium, Total	12100		ug/l	70.0	24.2	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Manganese, Total	43.03		ug/l	1.000	0.4400	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Mercury, Total	ND		ug/l	0.2000	0.0915	1	07/23/24 08:20	07/23/24 11:53	EPA 7470A	1,7470A	MJR
Nickel, Total	1.730	J	ug/l	2.000	0.5560	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Potassium, Total	3820		ug/l	100.	30.9	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Selenium, Total	ND		ug/l	5.00	1.73	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Silver, Total	ND		ug/l	0.4000	0.1630	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Sodium, Total	28900		ug/l	100.	29.3	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Thallium, Total	ND		ug/l	1.000	0.1430	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Vanadium, Total	ND		ug/l	5.000	1.570	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Zinc, Total	5.687	J	ug/l	10.00	3.410	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		07/23/24 12:17	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-17
Client ID: DUP-W
Sample Location: 51ST ST. PHILA PA
Sample Depth:
Matrix: Water

Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	6.20	J	ug/l	10.0	3.27	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.7301	J	ug/l	4.000	0.4290	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.9913		ug/l	0.5000	0.1650	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Barium, Dissolved	43.75		ug/l	0.5000	0.1730	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		ug/l	0.5000	0.1070	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	ND		ug/l	0.2000	0.0599	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	30100		ug/l	100.	39.4	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.2487	J	ug/l	1.000	0.1780	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.1669	J	ug/l	0.5000	0.1630	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Copper, Dissolved	2.374		ug/l	1.000	0.3840	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Iron, Dissolved	20.6	J	ug/l	50.0	19.1	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	11700		ug/l	70.0	24.2	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	1.940		ug/l	1.000	0.4400	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		ug/l	0.2000	0.0915	1	07/24/24 06:55	07/24/24 10:07	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	1.904	J	ug/l	2.000	0.5560	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3810		ug/l	100.	30.9	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		ug/l	5.00	1.73	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		ug/l	0.4000	0.1630	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	27600		ug/l	100.	29.3	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		ug/l	1.000	0.1430	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		ug/l	5.000	1.570	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	3.462	J	ug/l	10.00	3.410	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1950082-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Antimony, Total	0.258	J	mg/kg	2.00	0.152	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Barium, Total	ND		mg/kg	0.400	0.070	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Calcium, Total	ND		mg/kg	4.00	1.40	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Cobalt, Total	ND		mg/kg	0.800	0.066	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Copper, Total	ND		mg/kg	0.400	0.103	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Iron, Total	1.04	J	mg/kg	2.00	0.361	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Lead, Total	ND		mg/kg	2.00	0.107	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Magnesium, Total	ND		mg/kg	4.00	0.616	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Potassium, Total	ND		mg/kg	100	5.76	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Silver, Total	ND		mg/kg	0.200	0.113	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Sodium, Total	ND		mg/kg	80.0	1.26	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Thallium, Total	ND		mg/kg	0.800	0.126	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Vanadium, Total	ND		mg/kg	0.400	0.081	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Zinc, Total	ND		mg/kg	2.00	0.117	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1950083-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/23/24 09:30	07/23/24 10:34	1,7471B	MJR

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13-17 Batch: WG1950093-1										
Aluminum, Total	ND		ug/l	10.0	3.27	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Antimony, Total	ND		ug/l	4.000	0.4290	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Arsenic, Total	ND		ug/l	0.5000	0.1650	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Barium, Total	ND		ug/l	0.5000	0.1730	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Calcium, Total	ND		ug/l	100	39.4	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Chromium, Total	ND		ug/l	1.000	0.1780	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Cobalt, Total	ND		ug/l	0.5000	0.1630	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Copper, Total	ND		ug/l	1.000	0.3840	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Iron, Total	ND		ug/l	50.0	19.1	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Lead, Total	ND		ug/l	1.000	0.3430	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Magnesium, Total	ND		ug/l	70.0	24.2	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Manganese, Total	ND		ug/l	1.000	0.4400	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Nickel, Total	ND		ug/l	2.000	0.5560	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Potassium, Total	ND		ug/l	100	30.9	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Selenium, Total	ND		ug/l	5.00	1.73	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Silver, Total	ND		ug/l	0.4000	0.1630	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Sodium, Total	ND		ug/l	100	29.3	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Thallium, Total	ND		ug/l	1.000	0.1430	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Vanadium, Total	ND		ug/l	5.000	1.570	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Zinc, Total	ND		ug/l	10.00	3.410	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13-17 Batch: WG1950095-1										
Mercury, Total	ND		ug/l	0.2000	0.0915	1	07/23/24 08:20	07/23/24 11:15	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 13-17 Batch: WG1950096-1										
Aluminum, Dissolved	ND		ug/l	10.0	3.27	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Antimony, Dissolved	0.4414	J	ug/l	4.000	0.4290	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Arsenic, Dissolved	ND		ug/l	0.5000	0.1650	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Barium, Dissolved	ND		ug/l	0.5000	0.1730	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Beryllium, Dissolved	ND		ug/l	0.5000	0.1070	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Cadmium, Dissolved	ND		ug/l	0.2000	0.0599	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Calcium, Dissolved	ND		ug/l	100	39.4	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Chromium, Dissolved	ND		ug/l	1.000	0.1780	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Cobalt, Dissolved	ND		ug/l	0.5000	0.1630	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Copper, Dissolved	ND		ug/l	1.000	0.3840	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Iron, Dissolved	ND		ug/l	50.0	19.1	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Magnesium, Dissolved	ND		ug/l	70.0	24.2	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Manganese, Dissolved	ND		ug/l	1.000	0.4400	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Nickel, Dissolved	ND		ug/l	2.000	0.5560	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Potassium, Dissolved	ND		ug/l	100	30.9	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Selenium, Dissolved	ND		ug/l	5.00	1.73	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Silver, Dissolved	ND		ug/l	0.4000	0.1630	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Sodium, Dissolved	38.9	J	ug/l	100	29.3	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Thallium, Dissolved	ND		ug/l	1.000	0.1430	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Vanadium, Dissolved	ND		ug/l	5.000	1.570	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Zinc, Dissolved	ND		ug/l	10.00	3.410	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 13-17 Batch: WG1950098-1										
Mercury, Dissolved	ND		ug/l	0.2000	0.0915	1	07/24/24 06:55	07/24/24 09:40	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1950082-2								
Aluminum, Total	101		-		80-120	-		
Antimony, Total	106		-		80-120	-		
Arsenic, Total	109		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	104		-		80-120	-		
Cadmium, Total	102		-		80-120	-		
Calcium, Total	103		-		80-120	-		
Chromium, Total	101		-		80-120	-		
Cobalt, Total	103		-		80-120	-		
Copper, Total	105		-		80-120	-		
Iron, Total	104		-		80-120	-		
Lead, Total	106		-		80-120	-		
Magnesium, Total	104		-		80-120	-		
Manganese, Total	102		-		80-120	-		
Nickel, Total	103		-		80-120	-		
Potassium, Total	106		-		80-120	-		
Selenium, Total	110		-		80-120	-		
Silver, Total	108		-		80-120	-		
Sodium, Total	107		-		80-120	-		
Thallium, Total	104		-		80-120	-		
Vanadium, Total	103		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1950082-2					
Zinc, Total	104	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1950083-2					
Mercury, Total	102	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-17 Batch: WG1950093-2					
Aluminum, Total	93	-	80-120	-	
Antimony, Total	82	-	80-120	-	
Arsenic, Total	93	-	80-120	-	
Barium, Total	95	-	80-120	-	
Beryllium, Total	93	-	80-120	-	
Cadmium, Total	92	-	80-120	-	
Calcium, Total	87	-	80-120	-	
Chromium, Total	93	-	80-120	-	
Cobalt, Total	94	-	80-120	-	
Copper, Total	94	-	80-120	-	
Iron, Total	113	-	80-120	-	
Lead, Total	89	-	80-120	-	
Magnesium, Total	92	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	96	-	80-120	-	
Potassium, Total	92	-	80-120	-	
Selenium, Total	88	-	80-120	-	
Silver, Total	96	-	80-120	-	
Sodium, Total	96	-	80-120	-	
Thallium, Total	88	-	80-120	-	
Vanadium, Total	92	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-17 Batch: WG1950093-2					
Zinc, Total	93	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 13-17 Batch: WG1950095-2					
Mercury, Total	112	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 Batch: WG1950096-2					
Aluminum, Dissolved	95	-	80-120	-	
Antimony, Dissolved	85	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Barium, Dissolved	101	-	80-120	-	
Beryllium, Dissolved	103	-	80-120	-	
Cadmium, Dissolved	100	-	80-120	-	
Calcium, Dissolved	119	-	80-120	-	
Chromium, Dissolved	98	-	80-120	-	
Cobalt, Dissolved	106	-	80-120	-	
Copper, Dissolved	107	-	80-120	-	
Iron, Dissolved	110	-	80-120	-	
Lead, Dissolved	104	-	80-120	-	
Magnesium, Dissolved	98	-	80-120	-	
Manganese, Dissolved	100	-	80-120	-	
Nickel, Dissolved	107	-	80-120	-	
Potassium, Dissolved	102	-	80-120	-	
Selenium, Dissolved	96	-	80-120	-	
Silver, Dissolved	103	-	80-120	-	
Sodium, Dissolved	104	-	80-120	-	
Thallium, Dissolved	105	-	80-120	-	
Vanadium, Dissolved	97	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 Batch: WG1950096-2					
Zinc, Dissolved	105	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 Batch: WG1950098-2					
Mercury, Dissolved	99	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1950082-3 QC Sample: L2441006-01 Client ID: MS Sample												
Aluminum, Total	4500	226	4920	**186**	Q	-	-		75-125	-		20
Antimony, Total	ND	56.4	54.2	96		-	-		75-125	-		20
Arsenic, Total	4.11	13.5	18.1	103		-	-		75-125	-		20
Barium, Total	12.0	226	230	97		-	-		75-125	-		20
Beryllium, Total	0.240J	5.64	5.79	103		-	-		75-125	-		20
Cadmium, Total	ND	5.98	5.70	95		-	-		75-125	-		20
Calcium, Total	1000	1130	2000	89		-	-		75-125	-		20
Chromium, Total	6.81	22.6	28.3	95		-	-		75-125	-		20
Cobalt, Total	1.95J	56.4	56.1	99		-	-		75-125	-		20
Copper, Total	4.32	28.2	32.8	101		-	-		75-125	-		20
Iron, Total	5610	113	6040	**381**	Q	-	-		75-125	-		20
Lead, Total	8.16	59.8	67.8	100		-	-		75-125	-		20
Magnesium, Total	1110	1130	2370	112		-	-		75-125	-		20
Manganese, Total	67.0	56.4	125	103		-	-		75-125	-		20
Nickel, Total	5.33	56.4	60.3	97		-	-		75-125	-		20
Potassium, Total	658	1130	1720	94		-	-		75-125	-		20
Selenium, Total	0.353J	13.5	13.9	103		-	-		75-125	-		20
Silver, Total	ND	5.64	5.78	102		-	-		75-125	-		20
Sodium, Total	52.3J	1130	1200	106		-	-		75-125	-		20
Thallium, Total	ND	13.5	13.2	98		-	-		75-125	-		20
Vanadium, Total	8.88	56.4	64.4	98		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1950082-3 QC Sample: L2441006-01 Client ID: MS Sample									
Zinc, Total	23.1	56.4	79.7	100	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1950083-3 QC Sample: L2440891-01 Client ID: MS Sample									
Mercury, Total	ND	2.37	2.49	105	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950093-3 QC Sample: L2441149-13 Client ID: DEP51-W1										
Aluminum, Total	60.9	2000	1940	94		-	-	75-125	-	20
Antimony, Total	1.215J	500	438.0	88		-	-	75-125	-	20
Arsenic, Total	0.9562	120	112.9	93		-	-	75-125	-	20
Barium, Total	45.70	2000	1972	96		-	-	75-125	-	20
Beryllium, Total	ND	50	45.69	91		-	-	75-125	-	20
Cadmium, Total	ND	53	50.31	95		-	-	75-125	-	20
Calcium, Total	31100	10000	37600	**65**	Q	-	-	75-125	-	20
Chromium, Total	0.3406J	200	186.1	93		-	-	75-125	-	20
Cobalt, Total	0.3777J	500	471.5	94		-	-	75-125	-	20
Copper, Total	3.167	250	237.0	94		-	-	75-125	-	20
Iron, Total	169.	1000	1260	109		-	-	75-125	-	20
Lead, Total	1.069	530	504.7	95		-	-	75-125	-	20
Magnesium, Total	12100	10000	21000	89		-	-	75-125	-	20
Manganese, Total	45.85	500	518.3	94		-	-	75-125	-	20
Nickel, Total	1.761J	500	474.2	95		-	-	75-125	-	20
Potassium, Total	3820	10000	12800	90		-	-	75-125	-	20
Selenium, Total	ND	120	104	87		-	-	75-125	-	20
Silver, Total	ND	50	48.76	98		-	-	75-125	-	20
Sodium, Total	28800	10000	39600	108		-	-	75-125	-	20
Thallium, Total	ND	120	112.8	94		-	-	75-125	-	20
Vanadium, Total	ND	500	455.9	91		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950093-3 QC Sample: L2441149-13 Client ID: DEP51-W1									
Zinc, Total	7.520J	500	461.5	92	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950095-3 QC Sample: L2441149-14 Client ID: DEP51-W2									
Mercury, Total	0.2490	5	5.005	95	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950096-3 QC Sample: L2441149-13 Client ID: DEP51-W1										
Aluminum, Dissolved	8.49J	2000	1740	87		-	-	75-125	-	20
Antimony, Dissolved	0.6591J	500	447.0	89		-	-	75-125	-	20
Arsenic, Dissolved	0.9911	120	118.5	98		-	-	75-125	-	20
Barium, Dissolved	43.00	2000	1994	98		-	-	75-125	-	20
Beryllium, Dissolved	ND	50	51.92	104		-	-	75-125	-	20
Cadmium, Dissolved	ND	53	52.33	99		-	-	75-125	-	20
Calcium, Dissolved	31500	10000	36900	**54**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.2748J	200	180.9	90		-	-	75-125	-	20
Cobalt, Dissolved	0.2237J	500	480.4	96		-	-	75-125	-	20
Copper, Dissolved	2.925	250	251.2	99		-	-	75-125	-	20
Iron, Dissolved	50.1	1000	1050	100		-	-	75-125	-	20
Lead, Dissolved	ND	530	534.3	101		-	-	75-125	-	20
Magnesium, Dissolved	12000	10000	19600	76		-	-	75-125	-	20
Manganese, Dissolved	4.750	500	445.1	88		-	-	75-125	-	20
Nickel, Dissolved	2.390	500	488.5	97		-	-	75-125	-	20
Potassium, Dissolved	3890	10000	12400	85		-	-	75-125	-	20
Selenium, Dissolved	ND	120	109	91		-	-	75-125	-	20
Silver, Dissolved	ND	50	50.04	100		-	-	75-125	-	20
Sodium, Dissolved	28000	10000	35600	76		-	-	75-125	-	20
Thallium, Dissolved	ND	120	123.7	103		-	-	75-125	-	20
Vanadium, Dissolved	ND	500	451.9	90		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950096-3 QC Sample: L2441149-13 Client ID: DEP51-W1									
Zinc, Dissolved	3.552J	500	489.2	98	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950098-3 QC Sample: L2441149-14 Client ID: DEP51-W2									
Mercury, Dissolved	ND	5	5.104	102	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1950082-4 QC Sample: L2441006-01 Client ID: DUP Sample						
Arsenic, Total	4.11	4.13	mg/kg	0		20
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1950083-4 QC Sample: L2440891-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950093-4 QC Sample: L2441149-13 Client ID: DEP51-W1					
Aluminum, Total	60.9	54.9	ug/l	10	20
Antimony, Total	1.215J	1.095J	ug/l	NC	20
Arsenic, Total	0.9562	0.9548	ug/l	0	20
Barium, Total	45.70	44.41	ug/l	3	20
Beryllium, Total	ND	ND	ug/l	NC	20
Cadmium, Total	ND	ND	ug/l	NC	20
Calcium, Total	31100	29900	ug/l	4	20
Chromium, Total	0.3406J	0.3212J	ug/l	NC	20
Cobalt, Total	0.3777J	0.3516J	ug/l	NC	20
Copper, Total	3.167	2.880	ug/l	9	20
Iron, Total	169.	165	ug/l	2	20
Lead, Total	1.069	1.023	ug/l	4	20
Magnesium, Total	12100	11600	ug/l	4	20
Manganese, Total	45.85	44.06	ug/l	4	20
Nickel, Total	1.761J	1.757J	ug/l	NC	20
Potassium, Total	3820	3600	ug/l	6	20
Selenium, Total	ND	ND	ug/l	NC	20
Silver, Total	ND	ND	ug/l	NC	20
Sodium, Total	28800	27600	ug/l	4	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950093-4 QC Sample: L2441149-13 Client ID: DEP51-W1					
Thallium, Total	ND	ND	ug/l	NC	20
Vanadium, Total	ND	ND	ug/l	NC	20
Zinc, Total	7.520J	7.041J	ug/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950095-4 QC Sample: L2441149-14 Client ID: DEP51-W2					
Mercury, Total	0.2490	0.1280J	ug/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950096-4 QC Sample: L2441149-13 Client ID: DEP51-W1					
Aluminum, Dissolved	8.49J	8.10J	ug/l	NC	20
Antimony, Dissolved	0.6591J	1.708J	ug/l	NC	20
Arsenic, Dissolved	0.9911	1.025	ug/l	3	20
Barium, Dissolved	43.00	42.52	ug/l	1	20
Beryllium, Dissolved	ND	ND	ug/l	NC	20
Cadmium, Dissolved	ND	ND	ug/l	NC	20
Calcium, Dissolved	31500	31300	ug/l	1	20
Chromium, Dissolved	0.2748J	0.3535J	ug/l	NC	20
Cobalt, Dissolved	0.2237J	0.2392J	ug/l	NC	20
Copper, Dissolved	2.925	2.478	ug/l	17	20
Iron, Dissolved	50.1	32.2J	ug/l	NC	20
Lead, Dissolved	ND	ND	ug/l	NC	20
Magnesium, Dissolved	12000	12300	ug/l	2	20
Manganese, Dissolved	4.750	4.846	ug/l	2	20
Nickel, Dissolved	2.390	1.882J	ug/l	NC	20
Potassium, Dissolved	3890	3960	ug/l	2	20
Selenium, Dissolved	ND	ND	ug/l	NC	20
Silver, Dissolved	ND	ND	ug/l	NC	20
Sodium, Dissolved	28000	28800	ug/l	3	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950096-4 QC Sample: L2441149-13 Client ID: DEP51-W1					
Thallium, Dissolved	ND	ND	ug/l	NC	20
Vanadium, Dissolved	ND	ND	ug/l	NC	20
Zinc, Dissolved	3.552J	3.505J	ug/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950098-4 QC Sample: L2441149-14 Client ID: DEP51-W2					
Mercury, Dissolved	ND	ND	ug/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-01
Client ID: DEP51-S1
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 10:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.9		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	0.212	J	mg/kg	0.809	0.162	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-02
Client ID: DEP51-S2
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 10:45
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.0		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	3.73		mg/kg	0.851	0.170	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-03
Client ID: DEP51-S3
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 10:50
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.8		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.826	0.165	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-04
Client ID: DEP51-S4
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.7		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.827	0.165	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-05
Client ID: DEP51-S5
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.8		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.08	0.217	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-06
Client ID: DEP51-S6
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.990	0.198	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-07
Client ID: DEP51-S7
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.3		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	0.273	J	mg/kg	1.09	0.218	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-08
Client ID: DEP51-S8
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:20
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.3		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.33	0.265	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-09
Client ID: DEP51-S9
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:25
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.990	0.198	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-10
Client ID: DEP51-S10
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.0		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.33	0.267	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-11
Client ID: DEP51-S11
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:40
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.928	0.186	1	07/23/24 09:09	07/24/24 04:07	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-12
Client ID: DUP-S
Sample Location: 51ST ST. PHILA PA

Sample Depth:
Matrix: Soil

Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.0		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.04	0.208	1	07/23/24 09:09	07/24/24 04:07	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-13
Client ID: DEP51-W1
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 12:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	07/23/24 05:45	07/23/24 06:25	1,7196A	CAR

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-14
Client ID: DEP51-W2
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 12:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	07/23/24 05:45	07/23/24 06:25	1,7196A	CAR

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-15
Client ID: DEP51-W3
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 12:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	07/23/24 05:45	07/23/24 06:26	1,7196A	CAR

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-16
Client ID: DEP51-W4
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 13:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	07/23/24 05:45	07/23/24 06:26	1,7196A	CAR

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-17
Client ID: DUP-W
Sample Location: 51ST ST. PHILA PA

Sample Depth:
Matrix: Water

Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	07/23/24 05:45	07/23/24 06:26	1,7196A	CAR

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 13-17 Batch: WG1950068-1										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	07/23/24 05:45	07/23/24 06:24	1,7196A	CAR
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1950127-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH
General Chemistry - Westborough Lab for sample(s): 11-12 Batch: WG1950129-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	07/23/24 09:09	07/24/24 04:07	1,7196A	DTH

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-17 Batch: WG1950068-2								
Chromium, Hexavalent	99		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1950127-2								
Chromium, Hexavalent	95		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-12 Batch: WG1950129-2								
Chromium, Hexavalent	95		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-17 QC Batch ID: WG1950068-4 QC Sample: L2441149-13 Client ID: DEP51-W1												
Chromium, Hexavalent	ND	100	101	101		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1950127-4 QC Sample: L2441149-06 Client ID: DEP51-S6												
Chromium, Hexavalent	ND	1580	1520	96		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-12 QC Batch ID: WG1950129-4 QC Sample: L2441149-11 Client ID: DEP51-S11												
Chromium, Hexavalent	ND	1230	554	**45**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-17 QC Batch ID: WG1950068-3 QC Sample: L2441149-13 Client ID: DEP51-W1						
Chromium, Hexavalent	ND	ND	ug/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1950112-1 QC Sample: L2437747-04 Client ID: DUP Sample						
Solids, Total	88.3	88.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1950127-6 QC Sample: L2441149-06 Client ID: DEP51-S6						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 11-12 QC Batch ID: WG1950129-6 QC Sample: L2441149-11 Client ID: DEP51-S11						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-01A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2441149-01B	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-01C	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-01D	Plastic 120ml unpreserved	B	NA		3.5	Y	Absent		TS(7)
L2441149-01E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2441149-01F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2441149-02A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2441149-02B	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-02C	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-02D	Plastic 120ml unpreserved	B	NA		3.5	Y	Absent		TS(7)
L2441149-02E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2441149-02F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2441149-03A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2441149-03B	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-03C	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-03D	Plastic 120ml unpreserved	B	NA		3.5	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-03E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2441149-03F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2441149-04A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2441149-04B	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-04C	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-04D	Plastic 120ml unpreserved	B	NA		3.5	Y	Absent		TS(7)
L2441149-04E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2441149-04F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2441149-05A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2441149-05B	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-05C	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-05D	Plastic 120ml unpreserved	B	NA		3.5	Y	Absent		TS(7)
L2441149-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2441149-05F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2441149-06A	Vial MeOH preserved	A	NA		5.3	Y	Absent		PA-8260HLW(14)
L2441149-06B	Vial water preserved	A	NA		5.3	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-06C	Vial water preserved	A	NA		5.3	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-06D	Plastic 120ml unpreserved	A	NA		5.3	Y	Absent		TS(7)
L2441149-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-06F	Glass 120ml/4oz unpreserved	A	NA		5.3	Y	Absent		HEXCR-7196(30)
L2441149-07A	Vial MeOH preserved	C	NA		4.1	Y	Absent		PA-8260HLW(14)
L2441149-07B	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-07C	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-07D	Plastic 120ml unpreserved	C	NA		4.1	Y	Absent		TS(7)
L2441149-07E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2441149-07F	Glass 120ml/4oz unpreserved	C	NA		4.1	Y	Absent		HEXCR-7196(30)
L2441149-08A	Vial MeOH preserved	C	NA		4.1	Y	Absent		PA-8260HLW(14)
L2441149-08B	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-08C	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-08D	Plastic 120ml unpreserved	C	NA		4.1	Y	Absent		TS(7)
L2441149-08E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2441149-08F	Glass 120ml/4oz unpreserved	C	NA		4.1	Y	Absent		HEXCR-7196(30)
L2441149-09A	Vial MeOH preserved	C	NA		4.1	Y	Absent		PA-8260HLW(14)
L2441149-09B	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-09C	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-09D	Plastic 120ml unpreserved	C	NA		4.1	Y	Absent		TS(7)
L2441149-09E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2441149-09F	Glass 120ml/4oz unpreserved	C	NA		4.1	Y	Absent		HEXCR-7196(30)
L2441149-10A	Vial MeOH preserved	C	NA		4.1	Y	Absent		PA-8260HLW(14)
L2441149-10B	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-10C	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-10D	Plastic 120ml unpreserved	C	NA		4.1	Y	Absent		TS(7)
L2441149-10E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2441149-10F	Glass 120ml/4oz unpreserved	C	NA		4.1	Y	Absent		HEXCR-7196(30)
L2441149-11A	Vial MeOH preserved	C	NA		4.1	Y	Absent		PA-8260HLW(14)
L2441149-11B	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-11C	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-11D	Plastic 120ml unpreserved	C	NA		4.1	Y	Absent		TS(7)
L2441149-11E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2441149-11F	Glass 120ml/4oz unpreserved	C	NA		4.1	Y	Absent		HEXCR-7196(30)
L2441149-12A	Vial MeOH preserved	C	NA		4.1	Y	Absent		PA-8260HLW(14)
L2441149-12B	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-12C	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-12D	Plastic 120ml unpreserved	C	NA		4.1	Y	Absent		TS(7)
L2441149-12E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2441149-12F	Glass 120ml/4oz unpreserved	C	NA		4.1	Y	Absent		HEXCR-7196(30)
L2441149-13A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-13B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-13C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-13D	Plastic 250ml unpreserved	A	7	7	5.3	Y	Absent		-

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-13E	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		CO-6020T-PPB(180),AL-6020T-PPB(180),SB-6020T-PPB(180),CR-6020T-PPB(180),HG-T-PPB(28),BE-6020T-PPB(180),CD-6020T-PPB(180),CA-6020T-PPB(180),CU-6020T-PPB(180),BA-6020T-PPB(180),TL-6020T-PPB(180),AG-6020T-PPB(180),PB-6020T-PPB(180),K-6020T-PPB(180),AS-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),ZN-6020T-PPB(180),MG-6020T-PPB(180),NI-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180)
L2441149-13F	Plastic 500ml unpreserved	A	7	7	5.3	Y	Absent		HEXCR-7196-PPB(1)
L2441149-13X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	5.3	Y	Absent		PB-6020S-PPB(180),AG-6020S-PPB(180),BE-6020S-PPB(180),K-6020S-PPB(180),TL-6020S-PPB(180),HG-S-PPB(28),ZN-6020S-PPB(180),CU-6020S-PPB(180),CD-6020S-PPB(180),CO-6020S-PPB(180),SB-6020S-PPB(180),AS-6020S-PPB(180),CR-6020S-PPB(180),MN-6020S-PPB(180),BA-6020S-PPB(180),FE-6020S-PPB(180),MG-6020S-PPB(180),CA-6020S-PPB(180),NA-6020S-PPB(180),V-6020S-PPB(180),AL-6020S-PPB(180),NI-6020S-PPB(180),SE-6020S-PPB(180)
L2441149-14A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-14B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-14C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-14D	Plastic 250ml unpreserved	A	7	7	5.3	Y	Absent		-
L2441149-14E	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		AL-6020T-PPB(180),CO-6020T-PPB(180),CD-6020T-PPB(180),HG-T-PPB(28),SB-6020T-PPB(180),CR-6020T-PPB(180),BE-6020T-PPB(180),CA-6020T-PPB(180),CU-6020T-PPB(180),BA-6020T-PPB(180),TL-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),AS-6020T-PPB(180),AG-6020T-PPB(180),FE-6020T-PPB(180),NI-6020T-PPB(180),ZN-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180)
L2441149-14F	Plastic 500ml unpreserved	A	7	7	5.3	Y	Absent		HEXCR-7196-PPB(1)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-14X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	5.3	Y	Absent		PB-6020S-PPB(180),K-6020S-PPB(180),AG-6020S-PPB(180),BE-6020S-PPB(180),TL-6020S-PPB(180),HG-S-PPB(28),ZN-6020S-PPB(180),CU-6020S-PPB(180),CO-6020S-PPB(180),CD-6020S-PPB(180),SB-6020S-PPB(180),AS-6020S-PPB(180),MN-6020S-PPB(180),CR-6020S-PPB(180),NA-6020S-PPB(180),FE-6020S-PPB(180),BA-6020S-PPB(180),MG-6020S-PPB(180),V-6020S-PPB(180),CA-6020S-PPB(180),AL-6020S-PPB(180),NI-6020S-PPB(180),SE-6020S-PPB(180)
L2441149-15A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-15B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-15C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-15D	Plastic 250ml unpreserved	A	7	7	5.3	Y	Absent		-
L2441149-15E	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		AL-6020T-PPB(180),CO-6020T-PPB(180),BE-6020T-PPB(180),CR-6020T-PPB(180),SB-6020T-PPB(180),CD-6020T-PPB(180),HG-T-PPB(28),CA-6020T-PPB(180),CU-6020T-PPB(180),TL-6020T-PPB(180),BA-6020T-PPB(180),K-6020T-PPB(180),AG-6020T-PPB(180),AS-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),MG-6020T-PPB(180),NI-6020T-PPB(180),ZN-6020T-PPB(180),V-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180)
L2441149-15F	Plastic 500ml unpreserved	A	7	7	5.3	Y	Absent		HEXCR-7196-PPB(1)
L2441149-15X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	5.3	Y	Absent		PB-6020S-PPB(180),K-6020S-PPB(180),AG-6020S-PPB(180),BE-6020S-PPB(180),TL-6020S-PPB(180),HG-S-PPB(28),ZN-6020S-PPB(180),CO-6020S-PPB(180),CD-6020S-PPB(180),CU-6020S-PPB(180),MN-6020S-PPB(180),CR-6020S-PPB(180),AS-6020S-PPB(180),SB-6020S-PPB(180),BA-6020S-PPB(180),MG-6020S-PPB(180),CA-6020S-PPB(180),NA-6020S-PPB(180),V-6020S-PPB(180),FE-6020S-PPB(180),AL-6020S-PPB(180),SE-6020S-PPB(180),NI-6020S-PPB(180)
L2441149-16A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-16B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-16C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-16D	Plastic 250ml unpreserved	A	7	7	5.3	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-16E	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		CO-6020T-PPB(180),AL-6020T-PPB(180),CD-6020T-PPB(180),SB-6020T-PPB(180),BE-6020T-PPB(180),HG-T-PPB(28),CR-6020T-PPB(180),CU-6020T-PPB(180),CA-6020T-PPB(180),BA-6020T-PPB(180),TL-6020T-PPB(180),AS-6020T-PPB(180),PB-6020T-PPB(180),AG-6020T-PPB(180),K-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),ZN-6020T-PPB(180),MG-6020T-PPB(180),NI-6020T-PPB(180),V-6020T-PPB(180),SE-6020T-PPB(180),MN-6020T-PPB(180)
L2441149-16F	Plastic 500ml unpreserved	A	7	7	5.3	Y	Absent		HEXCR-7196-PPB(1)
L2441149-16X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	5.3	Y	Absent		PB-6020S-PPB(180),TL-6020S-PPB(180),K-6020S-PPB(180),AG-6020S-PPB(180),BE-6020S-PPB(180),ZN-6020S-PPB(180),HG-S-PPB(28),CU-6020S-PPB(180),CD-6020S-PPB(180),CO-6020S-PPB(180),CR-6020S-PPB(180),MN-6020S-PPB(180),AS-6020S-PPB(180),SB-6020S-PPB(180),BA-6020S-PPB(180),FE-6020S-PPB(180),NA-6020S-PPB(180),CA-6020S-PPB(180),MG-6020S-PPB(180),V-6020S-PPB(180),AL-6020S-PPB(180),SE-6020S-PPB(180),NI-6020S-PPB(180)
L2441149-17A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-17B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-17D	Plastic 250ml unpreserved	A	7	7	5.3	Y	Absent		-
L2441149-17E	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		CO-6020T-PPB(180),AL-6020T-PPB(180),SB-6020T-PPB(180),CD-6020T-PPB(180),CR-6020T-PPB(180),HG-T-PPB(28),BE-6020T-PPB(180),CA-6020T-PPB(180),CU-6020T-PPB(180),TL-6020T-PPB(180),BA-6020T-PPB(180),K-6020T-PPB(180),AS-6020T-PPB(180),AG-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NI-6020T-PPB(180),ZN-6020T-PPB(180),NA-6020T-PPB(180),MG-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180)
L2441149-17F	Plastic 500ml unpreserved	A	7	7	5.3	Y	Absent		HEXCR-7196-PPB(1)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-17X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	5.3	Y	Absent		PB-6020S-PPB(180),BE-6020S-PPB(180),K-6020S-PPB(180),TL-6020S-PPB(180),AG-6020S-PPB(180),HG-S-PPB(28),ZN-6020S-PPB(180),CU-6020S-PPB(180),CO-6020S-PPB(180),CD-6020S-PPB(180),CR-6020S-PPB(180),AS-6020S-PPB(180),SB-6020S-PPB(180),MN-6020S-PPB(180),FE-6020S-PPB(180),V-6020S-PPB(180),BA-6020S-PPB(180),MG-6020S-PPB(180),NA-6020S-PPB(180),CA-6020S-PPB(180),NI-6020S-PPB(180),SE-6020S-PPB(180),AL-6020S-PPB(180)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2441149
Project Number:	30108678.07	**Report Date:**	07/29/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Project Number:	30108678.07	**Report Date:**	07/29/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2441149
Project Number:	30108678.07	**Report Date:**	07/29/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

L2441149 24JUL24
LEVINE – NJ

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 3

Date Rec'd in Lab 7/23/24

Client Information

Client: Arcadis
Address: 1 Harvard Cwy Rd
Middlebrook NJ
Phone: 732-926-1566
Fax:
Email: Larry.Bird@arcadis.com

Project Information

Project Name: Allegra 5/52
Project Location: Philly, PA
Project #: 30108678.E7
(Use Project name as Project #)
Project Manager: Larry Bird
ALPHAQuote #:

Turn-Around Time

Standard
Rush (only if pre approved)
Due Date:
# of Days:

These samples have been previously analyzed by Alpha

Deliverables

NJ Full / Reduced
EQuIS (1 File) EQuIS (4 File)
Other

PO #

Regulatory Requirement

SRS Residential/Non Residential
SRS Impact to Groundwater
NJ Ground Water Quality Standards
NJ IGW SPLP Leachate Criteria
Other

Site Information

Is this site impacted by Petroleum? Yes
Petroleum Product:

For EPH, selection is REQUIRED:
Category 1
Category 2

For VOC, selection is REQUIRED:
1,4-Dioxane
8011

Other project specific requirements/comments:
Hex Cr, TAL Metals 48 hr TAT
Please specify Metals or TAL
Per soil and water
VOC, Normal TAT

ANALYSIS

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC +10	HEX Cr	Filtered Cr	TAL Metals	Trivalent Cr				Sample Specific Comments
41149-01	DEP81-S1	7/22/24	1030	SO1	MN	X	X		X	X				
-02	DEP81-S2		1045			X	X		X	X				
-03	DEP81-S3		1050			X	X		X	X				
-04	DEP81-S4		1100			X	X		X	X				
-05	DEP81-S5		1105			X	X		X	X				
-06	DEP81-S6		1110			X	X		X	X				
-07	DEP81-S7		1115			X	X		X	X				
-08	DEP81-S8		1120			X	X		X	X				
-09	DEP81-S9		1125			X	X		X	X				
-10	DEP81-S10		1130			X	X		X	X				

Container Type: V A A A
Preservative: O A A N

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other – Ascorbic

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Lichtig	7/22/24 1640	Pres Bar FACE	07-22-24 1630
Pres Bar FACE	07-22-24 1800		7/22/24 1800
	7/22/24 2100	Anthony Green	JUL 22 2024 2205
Anthony Green			7/23/24 0015

7/23/24 0225 Thank you 7/23/24 0225

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 7/23/24

ALPHA Job #: L2441149

Client Information
Client: Arcadis
Address: 1 Merkam Way Ste 5 Hillsborough NJ
Phone: 908-526 7ar
Fax:
Email: Larry.Grant@arcadis.com

Project Information
Project Name: Alliance S/SA
Project Location: Phila, PA
Project #: 30108678.07
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Hex Cr, TAL Metals 48 hr TAT for Soil and water
~~Please specify Metals or TAL.~~
VOCs Normal TAT

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC +10	Hex Cr	TAL Metals	Trivalent Cr	VOC +10	Hex Cr	Total Metals	Dissolved Mtls	Total Bottle
41149-11	DEPA1-S11	7/22/24	1140	Soil	MP	X		X	X					6
-12	DUP-5		X			X	X	X	X					6
-13	DEPA1-W1		1255	AQ						X	X	X	X	6
-14	DEPA1-W2		1210							X	X	X	X	6
-15	DEPA1-W3		1215							X	X	X	X	6
-16	DEPA1-W4		1300							X	X	X	X	6
-17	DUP-W		X							X	X	X	X	6

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other HCl

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V	A	A	A	A/H	D	P	P
Preservative	O	A	A	A	B	A	C	A

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	7/22/24 1621	[illegible]	07-22-24 16:20
[illegible]	07-22-24 1800	[illegible]	7/22/24 1800
Anthony Green	7/22/24 2100	Anthony Green	JUL 22 2024 2205
Anthony Green	7/23/24 0225	[illegible]	7/23/24 0225

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2444177
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLISURE 51ST
Project Number:	30108678
Report Date:	08/07/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLISURE 51ST
Project Number: 30108678

Lab Number: L2444177
Report Date: 08/07/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2444177-01	DEP51-S3	SOIL	PHILA, PA	08/06/24 10:55	08/06/24
L2444177-02	DEP51-S8	SOIL	PHILA, PA	08/06/24 11:00	08/06/24
L2444177-03	DEP51-S10	SOIL	PHILA, PA	08/06/24 11:05	08/06/24

Project Name:	ALLISURE 51ST	**Lab Number:**	L2444177
Project Number:	30108678	**Report Date:**	08/07/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLISURE 51ST	**Lab Number:**	L2444177
Project Number:	30108678	**Report Date:**	08/07/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2444177-01 through -03: The sample has an elevated detection limit for chromium due to the dilution required by the sample matrix.

The WG1956229-3 MS recovery for chromium (343%), performed on L2444177-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1956229-4 Laboratory Duplicate RPD for chromium (29%), performed on L2444177-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 08/07/24

METALS

Project Name: ALLISURE 51ST
Project Number: 30108678
Lab Number: L2444177
Report Date: 08/07/24

SAMPLE RESULTS

Lab ID: L2444177-01
Client ID: DEP51-S3
Sample Location: PHILA, PA
Date Collected: 08/06/24 10:55
Date Received: 08/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	266		mg/kg	0.947	0.091	2	08/07/24 08:15	08/07/24 11:53	EPA 3050B	1,6010D	JMF

Project Name: ALLISURE 51ST
Project Number: 30108678
Lab Number: L2444177
Report Date: 08/07/24

SAMPLE RESULTS

Lab ID: L2444177-02
Client ID: DEP51-S8
Sample Location: PHILA, PA
Date Collected: 08/06/24 11:00
Date Received: 08/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	163		mg/kg	1.19	0.114	2	08/07/24 08:15	08/07/24 11:41	EPA 3050B	1,6010D	JMF

Project Name: ALLISURE 51ST
Project Number: 30108678
Lab Number: L2444177
Report Date: 08/07/24

SAMPLE RESULTS

Lab ID: L2444177-03
Client ID: DEP51-S10
Sample Location: PHILA, PA
Date Collected: 08/06/24 11:05
Date Received: 08/06/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1000		mg/kg	1.17	0.112	2	08/07/24 08:15	08/07/24 11:45	EPA 3050B	1,6010D	JMF

Project Name: ALLISURE 51ST
Project Number: 30108678
Lab Number: L2444177
Report Date: 08/07/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1956229-1										
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/07/24 08:15	08/07/24 11:33	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLISURE 51ST

Project Number: 30108678

Lab Number: L2444177

Report Date: 08/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1956229-2								
Chromium, Total	98		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLISURE 51ST
Project Number: 30108678

Lab Number: L2444177
Report Date: 08/07/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1956229-3 QC Sample: L2444177-01 Client ID: DEP51-S3												
Chromium, Total	266	18.6	330	**343**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLISURE 51ST

Project Number: 30108678

Lab Number: L2444177

Report Date: 08/07/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1956229-4 QC Sample: L2444177-01 Client ID: DEP51-S3						
Chromium, Total	266	357	mg/kg	**29**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLISURE 51ST
Project Number: 30108678
Lab Number: L2444177
Report Date: 08/07/24

SAMPLE RESULTS

Lab ID: L2444177-01
Client ID: DEP51-S3
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 08/06/24 10:55
Date Received: 08/06/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.6		%	0.100	NA	1	-	08/07/24 01:39	121,2540G	WJM
Chromium, Hexavalent	ND		mg/kg	0.992	0.198	1	08/07/24 04:51	08/07/24 09:14	1,7196A	LOF

Project Name: ALLISURE 51ST
Project Number: 30108678
Lab Number: L2444177
Report Date: 08/07/24

SAMPLE RESULTS

Lab ID: L2444177-02
Client ID: DEP51-S8
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 08/06/24 11:00
Date Received: 08/06/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.9		%	0.100	NA	1	-	08/07/24 01:39	121,2540G	WJM
Chromium, Hexavalent	ND		mg/kg	1.23	0.246	1	08/07/24 04:51	08/07/24 09:14	1,7196A	LOF

Project Name: ALLISURE 51ST
Project Number: 30108678
Lab Number: L2444177
Report Date: 08/07/24

SAMPLE RESULTS

Lab ID: L2444177-03
Client ID: DEP51-S10
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 08/06/24 11:05
Date Received: 08/06/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.1		%	0.100	NA	1	-	08/07/24 01:39	121,2540G	WJM
Chromium, Hexavalent	ND		mg/kg	1.19	0.238	1	08/07/24 04:51	08/07/24 09:14	1,7196A	LOF

Project Name: ALLISURE 51ST
Project Number: 30108678
Lab Number: L2444177
Report Date: 08/07/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1956213-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/07/24 04:51	08/07/24 09:14	1,7196A	LOF

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLISURE 51ST

Project Number: 30108678

Lab Number: L2444177

Report Date: 08/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1956213-2								
Chromium, Hexavalent	95		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLISURE 51ST
Project Number: 30108678

Lab Number: L2444177
Report Date: 08/07/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1956213-4 QC Sample: L2444177-01 Client ID: DEP51-S3												
Chromium, Hexavalent	ND	1290	1240	96		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLISURE 51ST

Project Number: 30108678

Lab Number: L2444177

Report Date: 08/07/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1956179-1 QC Sample: L2444064-01 Client ID: DUP Sample						
Solids, Total	89.5	89.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1956213-6 QC Sample: L2444177-01 Client ID: DEP51-S3						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: ALLISURE 51ST
Project Number: 30108678

Lab Number: L2444177
Report Date: 08/07/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2444177-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		CR-TI(180)
L2444177-01B	Glass 120ml/4oz unpreserved	A	NA		2.8	Y	Absent		TS(7),HEXCR-7196(30)
L2444177-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		CR-TI(180)
L2444177-02B	Glass 120ml/4oz unpreserved	A	NA		2.8	Y	Absent		TS(7),HEXCR-7196(30)
L2444177-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		CR-TI(180)
L2444177-03B	Glass 120ml/4oz unpreserved	A	NA		2.8	Y	Absent		TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	ALLISURE 51ST	**Lab Number:**	L2444177
Project Number:	30108678	**Report Date:**	08/07/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLISURE 51ST	**Lab Number:**	L2444177
Project Number:	30108678	**Report Date:**	08/07/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLISURE 51ST	**Lab Number:**	L2444177
Project Number:	30108678	**Report Date:**	08/07/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLISURE 51ST	**Lab Number:**	L2444177
Project Number:	30108678	**Report Date:**	08/07/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No:08072415:39

L2444177 07AUG24
LEVINE – NJ

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 8/7/24

Client Information

Client: Arcadis
Address: 1 Harwood Hwy Ste 5
Hillsborough NJ
Phone: 908-526-1000
Fax:
Email: Larry.Brad@arcadis.com

Project Information

Project Name: Allstate Fire
Project Location: Philly, PA
Project #: 30106678
(Use Project name as Project #) ☐
Project Manager: Larry Brad
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 24 hour

Deliverables

☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

☐ Same as Client Info
PO #

Regulatory Requirement

☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Site Information

Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Unpr CC	Filt CC							Total Bottle
44177-01	Rep51-53	8/6/24	1045	GW	MJ	X	X							2
02	DUP51-58		1100			X	X							2
03	DUP51-510		1105			X	X							2

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Container Type: A A
Preservative: A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
MJ Philpott	8/6/24 1200	Nicole Page	8/6/24 1200
Nicole Page	8/6/24 1520	MJ Pike	8-6-24 1520
MJ Pike	8-6-24 1830/1930		8/7/24 0:00
	8/6/24		8/7 0200
	7/8/24 0:50	Tyler Coghlan	7/8/24 0:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2443629
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST
Project Number:	30108678.07
Report Date:	08/12/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2443629-01	S-206	SOIL	PHILLY PA	08/02/24 09:05	08/02/24
L2443629-02	S-209	SOIL	PHILLY PA	08/02/24 09:20	08/02/24
L2443629-03	S-216	SOIL	PHILLY PA	08/02/24 09:35	08/02/24
L2443629-04	S-502	SOIL	PHILLY PA	08/02/24 09:45	08/02/24
L2443629-05	S-503	SOIL	PHILLY PA	08/02/24 10:05	08/02/24
L2443629-06	S-504	SOIL	PHILLY PA	08/02/24 10:10	08/02/24
L2443629-07	S-601	SOIL	PHILLY PA	08/02/24 09:55	08/02/24
L2443629-08	S-602	SOIL	PHILLY PA	08/02/24 10:15	08/02/24
L2443629-09	S-603	SOIL	PHILLY PA	08/02/24 10:30	08/02/24
L2443629-10	S-604	SOIL	PHILLY PA	08/02/24 10:40	08/02/24

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2443629
Project Number:	30108678.07	**Report Date:**	08/12/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2443629
Project Number:	30108678.07	**Report Date:**	08/12/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2443629-01 through -10: The sample has an elevated detection limit due to the dilution required by the sample matrix.

The WG1955669-3 MS recovery for chromium (0%), performed on L2443629-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1955669-4 Laboratory Duplicate RPD for chromium (36%), performed on L2443629-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Chromium, Hexavalent

L2443629-10: The Hexavalent Chromium result is higher than the Total Chromium result due to a non-homogenous nature of the sample.

WG1956190: A Laboratory Duplicate was prepared with the sample batch, however, the native sample was not available for reporting; therefore, the QC results could not be reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 08/12/24

METALS

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-01
Client ID: S-206
Sample Location: PHILLY PA
Date Collected: 08/02/24 09:05
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	793		mg/kg	1.72	0.165	4	08/06/24 07:45	08/06/24 22:29	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-02
Client ID: S-209
Sample Location: PHILLY PA
Date Collected: 08/02/24 09:20
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1010		mg/kg	0.915	0.088	2	08/06/24 07:45	08/06/24 20:14	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-03
Client ID: S-216
Sample Location: PHILLY PA
Date Collected: 08/02/24 09:35
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	2550		mg/kg	1.71	0.164	4	08/06/24 07:45	08/07/24 16:35	EPA 3050B	1,6010D	TAA

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-04
Client ID: S-502
Sample Location: PHILLY PA
Date Collected: 08/02/24 09:45
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	883		mg/kg	0.805	0.077	2	08/06/24 07:45	08/06/24 20:27	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-05
Client ID: S-503
Sample Location: PHILLY PA
Date Collected: 08/02/24 10:05
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	134		mg/kg	1.66	0.160	4	08/06/24 07:45	08/06/24 23:28	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-06
Client ID: S-504
Sample Location: PHILLY PA
Date Collected: 08/02/24 10:10
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	226		mg/kg	0.874	0.084	2	08/06/24 07:45	08/06/24 20:41	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-07
Client ID: S-601
Sample Location: PHILLY PA
Date Collected: 08/02/24 09:55
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	61.0		mg/kg	0.863	0.083	2	08/06/24 07:45	08/06/24 20:47	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-08
Client ID: S-602
Sample Location: PHILLY PA
Date Collected: 08/02/24 10:15
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	5210		mg/kg	5.36	0.514	10	08/06/24 07:45	08/07/24 16:41	EPA 3050B	1,6010D	TAA

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-09
Client ID: S-603
Sample Location: PHILLY PA
Date Collected: 08/02/24 10:30
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	334		mg/kg	0.791	0.076	2	08/06/24 07:45	08/06/24 21:00	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-10
Client ID: S-604
Sample Location: PHILLY PA
Date Collected: 08/02/24 10:40
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1100		mg/kg	0.871	0.084	2	08/06/24 07:45	08/06/24 21:07	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2443629
Report Date: 08/12/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1955669-1										
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/06/24 07:45	08/06/24 17:20	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2443629

Report Date: 08/12/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1955669-2								
Chromium, Total	102		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1955669-3 QC Sample: L2443629-01 Client ID: S-206												
Chromium, Total	793	16.7	716	**0**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2443629

Report Date: 08/12/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1955669-4 QC Sample: L2443629-01 Client ID: S-206						
Chromium, Total	793	553	mg/kg	**36**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-01
Client ID: S-206
Sample Location: PHILLY PA

Date Collected: 08/02/24 09:05
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	08/06/24 09:09	121,2540G	ROI
Chromium, Hexavalent	162		mg/kg	87.8	17.6	100	08/11/24 04:05	08/11/24 08:41	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-02
Client ID: S-209
Sample Location: PHILLY PA

Date Collected: 08/02/24 09:20
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	08/06/24 09:09	121,2540G	ROI
Chromium, Hexavalent	259		mg/kg	96.6	19.3	100	08/11/24 04:05	08/11/24 08:41	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-03
Client ID: S-216
Sample Location: PHILLY PA

Date Collected: 08/02/24 09:35
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	08/06/24 09:09	121,2540G	ROI
Chromium, Hexavalent	1660		mg/kg	43.6	8.71	50	08/07/24 02:36	08/07/24 18:07	1,7196A	LOF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-04
Client ID: S-502
Sample Location: PHILLY PA

Date Collected: 08/02/24 09:45
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.0		%	0.100	NA	1	-	08/06/24 09:09	121,2540G	ROI
Chromium, Hexavalent	279		mg/kg	82.5	16.5	100	08/07/24 02:36	08/07/24 18:07	1,7196A	LOF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-05
Client ID: S-503
Sample Location: PHILLY PA

Date Collected: 08/02/24 10:05
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.1		%	0.100	NA	1	-	08/06/24 09:09	121,2540G	ROI
Chromium, Hexavalent	2.88		mg/kg	0.859	0.172	1	08/07/24 02:36	08/07/24 18:07	1,7196A	LOF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-06
Client ID: S-504
Sample Location: PHILLY PA

Date Collected: 08/02/24 10:10
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	08/06/24 09:09	121,2540G	ROI
Chromium, Hexavalent	4.14		mg/kg	0.895	0.179	1	08/07/24 02:36	08/07/24 18:07	1,7196A	LOF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-07
Client ID: S-601
Sample Location: PHILLY PA

Date Collected: 08/02/24 09:55
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	08/06/24 09:09	121,2540G	ROI
Chromium, Hexavalent	0.739	J	mg/kg	0.882	0.176	1	08/07/24 02:36	08/07/24 18:07	1,7196A	LOF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-08
Client ID: S-602
Sample Location: PHILLY PA

Date Collected: 08/02/24 10:15
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.5		%	0.100	NA	1	-	08/06/24 09:09	121,2540G	ROI
Chromium, Hexavalent	3.98		mg/kg	1.13	0.227	1	08/07/24 02:36	08/07/24 18:07	1,7196A	LOF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-09
Client ID: S-603
Sample Location: PHILLY PA

Date Collected: 08/02/24 10:30
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.5		%	0.100	NA	1	-	08/06/24 09:09	121,2540G	ROI
Chromium, Hexavalent	13.6		mg/kg	0.812	0.162	1	08/11/24 04:05	08/11/24 08:41	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

SAMPLE RESULTS

Lab ID: L2443629-10
Client ID: S-604
Sample Location: PHILLY PA

Date Collected: 08/02/24 10:40
Date Received: 08/02/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	08/06/24 09:09	121,2540G	ROI
Chromium, Hexavalent	5710		mg/kg	443	88.6	500	08/11/24 04:05	08/11/24 08:41	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2443629
Report Date: 08/12/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 03-08 Batch: WG1956190-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/07/24 02:36	08/07/24 18:07	1,7196A	LOF
General Chemistry - Westborough Lab for sample(s): 01-02,09-10 Batch: WG1957799-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/11/24 04:05	08/11/24 08:41	1,7196A	DTH

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2443629

Report Date: 08/12/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03-08 Batch: WG1956190-2								
Chromium, Hexavalent	101		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02,09-10 Batch: WG1957799-2								
Chromium, Hexavalent	105		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03-08 QC Batch ID: WG1956190-4 QC Sample: - Client ID: -												
Chromium, Hexavalent	ND	1180	5170	**53**	Q	-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02,09-10 QC Batch ID: WG1957799-4 QC Sample: L2443629-01 Client ID: S-206												
Chromium, Hexavalent	162	872	967	92		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2443629

Report Date: 08/12/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1955744-1 QC Sample: L2443629-01 Client ID: S-206						
Solids, Total	91.1	91.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-02,09-10 QC Batch ID: WG1957799-6 QC Sample: L2443629-01 Client ID: S-206						
Chromium, Hexavalent	162	183	mg/kg	12		20

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2443629
Report Date: 08/12/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2443629-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		CR-TI(180)
L2443629-01B	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		TS(7),HEXCR-7196(30)
L2443629-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		CR-TI(180)
L2443629-02B	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		TS(7),HEXCR-7196(30)
L2443629-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		CR-TI(180)
L2443629-03B	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		TS(7),HEXCR-7196(30)
L2443629-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		CR-TI(180)
L2443629-04B	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		TS(7),HEXCR-7196(30)
L2443629-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		CR-TI(180)
L2443629-05B	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		TS(7),HEXCR-7196(30)
L2443629-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		CR-TI(180)
L2443629-06B	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		TS(7),HEXCR-7196(30)
L2443629-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		CR-TI(180)
L2443629-07B	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		TS(7),HEXCR-7196(30)
L2443629-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		CR-TI(180)
L2443629-08B	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		TS(7),HEXCR-7196(30)
L2443629-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		CR-TI(180)
L2443629-09B	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		TS(7),HEXCR-7196(30)
L2443629-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		CR-TI(180)
L2443629-10B	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2443629
Project Number:	30108678.07	**Report Date:**	08/12/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2443629
Project Number:	30108678.07	**Report Date:**	08/12/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2443629
Project Number:	30108678.07	**Report Date:**	08/12/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 8/3/24

ALPHA Job #: L2443629

Client Information

Client: Arcadis
Address: 1 Hayward Way Suite 5
Hillsborough, NJ 08844
Phone: (908) 526-1000
Fax:
Email: larry.brunt@arcadis.com

Project Information

Project Name: Alliance 51st St.
Project Location: Philly, PA
Project #: 30108678.07
(Use Project name as Project #)
Project Manager: Larry Brunt
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information

☐ Same as Client Info
PO #

Site Information

Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Hex Chrome	Total Chrome	Sample Specific Comments	Total Bottle
43629-01	S-206	8/1/24	0905	Soil		X	X		2
02	S-209		0920			X	X		2
03	S-216		0935			X	X		2
04	S-502		0945			X	X		2
05	S-503		1005			X	X		2
06	S-504		1010			X	X		2
07	S-601		0955			X	X		2
08	S-602		1015			X	X		2
09	S-603		1030			X	X		2
10	S-604		1040			X	X		2
	Container Type					A	A		
	Preservative					A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	8/2/24 1210		8/2/24 1240
	8/2/24 1500		8/2/24 1700
	8-2-24 1800		8/2/24 1845
	8/2/24		8/2 2200
	8/3 0030		8/3 0030

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2445674
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST
Project Number:	30108678
Report Date:	08/16/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2445674-01	DEP51-S3-240813	SOIL	PHILA, PA	08/13/24 10:45	08/13/24
L2445674-02	DEP51-S5-240813	SOIL	PHILA, PA	08/13/24 11:10	08/13/24
L2445674-03	DEP51-S6-240813	SOIL	PHILA, PA	08/13/24 11:20	08/13/24
L2445674-04	DEP51-S8A-240813	SOIL	PHILA, PA	08/13/24 11:30	08/13/24
L2445674-05	DEP51-S10A-240813	SOIL	PHILA, PA	08/13/24 11:35	08/13/24
L2445674-06	DEP51-S12-240813	SOIL	PHILA, PA	08/13/24 10:51	08/13/24
L2445674-07	DEP51-S13-240813	SOIL	PHILA, PA	08/13/24 11:05	08/13/24
L2445674-08	DEP51-S14-240813	SOIL	PHILA, PA	08/13/24 11:45	08/13/24
L2445674-09	DEP51-S15-240813	SOIL	PHILA, PA	08/13/24 11:55	08/13/24
L2445674-10	DEP51-S7-240813	SOIL	PHILA, PA	08/13/24 11:25	08/13/24
L2445674-11	DUP-S 240813	SOIL	PHILA, PA	08/13/24 00:00	08/13/24
L2445674-12	DEP51-W5-240813	WATER	PHILA, PA	08/13/24 12:30	08/13/24
L2445674-13	DEP51-W6-240813	WATER	PHILA, PA	08/13/24 12:55	08/13/24

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2445674
Project Number:	30108678	**Report Date:**	08/16/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2445674
Project Number:	30108678	**Report Date:**	08/16/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2445674-01 through -13: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

Chromium, Hexavalent

The WG1959251-5 Soluble MS recovery for chromium, hexavalent (71%), performed on L2445674-11, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 89%.

The WG1959316-6 Laboratory Duplicate RPD for chromium, hexavalent (26%), performed on L2445674-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 08/16/24

METALS

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-01
Client ID: DEP51-S3-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 10:45
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	11000		mg/kg	8.74	2.36	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	4.37	0.332	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Arsenic, Total	6.46		mg/kg	0.874	0.182	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Barium, Total	120		mg/kg	0.874	0.152	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.542		mg/kg	0.437	0.029	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.340	J	mg/kg	0.874	0.086	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Calcium, Total	36100		mg/kg	8.74	3.06	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Chromium, Total	828		mg/kg	0.874	0.084	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Cobalt, Total	12.3		mg/kg	1.75	0.145	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Copper, Total	32.7		mg/kg	0.874	0.226	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Iron, Total	18400		mg/kg	4.37	0.790	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Lead, Total	68.5		mg/kg	4.37	0.234	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Magnesium, Total	7140		mg/kg	8.74	1.35	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Manganese, Total	401		mg/kg	0.874	0.139	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Mercury, Total	0.089		mg/kg	0.080	0.052	1	08/14/24 23:55	08/15/24 08:14	EPA 7471B	1,7471B	JWN
Nickel, Total	42.3		mg/kg	2.19	0.212	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Potassium, Total	5760		mg/kg	219	12.6	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.75	0.226	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.437	0.247	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Sodium, Total	149	J	mg/kg	175	2.75	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.75	0.275	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Vanadium, Total	42.6		mg/kg	0.874	0.178	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Zinc, Total	184		mg/kg	4.37	0.256	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-02
Client ID: DEP51-S5-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:10
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6320		mg/kg	9.80	2.65	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	4.90	0.372	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Arsenic, Total	3.99		mg/kg	0.980	0.204	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Barium, Total	77.5		mg/kg	0.980	0.170	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.372	J	mg/kg	0.490	0.032	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.301	J	mg/kg	0.980	0.096	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Calcium, Total	10700		mg/kg	9.80	3.43	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Chromium, Total	246		mg/kg	0.980	0.094	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Cobalt, Total	7.32		mg/kg	1.96	0.163	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Copper, Total	27.2		mg/kg	0.980	0.253	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Iron, Total	18300		mg/kg	4.90	0.885	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Lead, Total	132		mg/kg	4.90	0.263	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Magnesium, Total	4300		mg/kg	9.80	1.51	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Manganese, Total	274		mg/kg	0.980	0.156	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.089	0.058	1	08/14/24 23:55	08/15/24 08:48	EPA 7471B	1,7471B	JWN
Nickel, Total	22.4		mg/kg	2.45	0.237	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Potassium, Total	3450		mg/kg	245	14.1	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.96	0.253	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.490	0.277	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Sodium, Total	169	J	mg/kg	196	3.09	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.96	0.309	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Vanadium, Total	22.7		mg/kg	0.980	0.199	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Zinc, Total	164		mg/kg	4.90	0.287	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-03
Client ID: DEP51-S6-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:20
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5690		mg/kg	17.8	4.80	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Antimony, Total	5.88	J	mg/kg	8.90	0.676	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Arsenic, Total	8.96		mg/kg	1.78	0.370	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Barium, Total	74.5		mg/kg	1.78	0.310	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.529	J	mg/kg	0.890	0.059	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.875	J	mg/kg	1.78	0.174	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Calcium, Total	13300		mg/kg	17.8	6.23	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Chromium, Total	522		mg/kg	1.78	0.171	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Cobalt, Total	11.7		mg/kg	3.56	0.295	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Copper, Total	81.3		mg/kg	1.78	0.459	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Iron, Total	51900		mg/kg	8.90	1.61	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Lead, Total	1060		mg/kg	8.90	0.477	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Magnesium, Total	4210		mg/kg	17.8	2.74	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Manganese, Total	483		mg/kg	1.78	0.283	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.074	0.048	1	08/14/24 23:55	08/15/24 08:51	EPA 7471B	1,7471B	JWN
Nickel, Total	40.9		mg/kg	4.45	0.430	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Potassium, Total	2420		mg/kg	445	25.6	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Selenium, Total	0.734	J	mg/kg	3.56	0.459	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.890	0.504	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Sodium, Total	141	J	mg/kg	356	5.60	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	3.56	0.560	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Vanadium, Total	29.0		mg/kg	1.78	0.361	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Zinc, Total	311		mg/kg	8.90	0.521	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-04
Client ID: DEP51-S8A-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:30
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 64%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3840		mg/kg	11.8	3.19	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	5.90	0.449	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Arsenic, Total	5.93		mg/kg	1.18	0.246	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Barium, Total	44.1		mg/kg	1.18	0.205	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.220	J	mg/kg	0.590	0.039	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.392	J	mg/kg	1.18	0.116	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Calcium, Total	12800		mg/kg	11.8	4.13	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Chromium, Total	204		mg/kg	1.18	0.113	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Cobalt, Total	6.04		mg/kg	2.36	0.196	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Copper, Total	25.3		mg/kg	1.18	0.305	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Iron, Total	34600		mg/kg	5.90	1.07	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Lead, Total	80.3		mg/kg	5.90	0.316	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Magnesium, Total	3840		mg/kg	11.8	1.82	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Manganese, Total	267		mg/kg	1.18	0.188	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.098	0.064	1	08/14/24 23:55	08/15/24 08:54	EPA 7471B	1,7471B	JWN
Nickel, Total	15.1		mg/kg	2.95	0.286	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Potassium, Total	1710		mg/kg	295	17.0	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	2.36	0.305	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.590	0.334	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Sodium, Total	94.0	J	mg/kg	236	3.72	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.36	0.372	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Vanadium, Total	16.0		mg/kg	1.18	0.240	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Zinc, Total	86.2		mg/kg	5.90	0.346	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-05
Client ID: DEP51-S10A-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:35
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7860		mg/kg	11.0	2.98	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Antimony, Total	0.893	J	mg/kg	5.51	0.419	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Arsenic, Total	8.72		mg/kg	1.10	0.229	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Barium, Total	92.5		mg/kg	1.10	0.192	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.514	J	mg/kg	0.551	0.036	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.477	J	mg/kg	1.10	0.108	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Calcium, Total	23100		mg/kg	11.0	3.86	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Chromium, Total	535		mg/kg	1.10	0.106	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Cobalt, Total	11.5		mg/kg	2.20	0.183	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Copper, Total	50.7		mg/kg	1.10	0.284	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Iron, Total	16700		mg/kg	5.51	0.996	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Lead, Total	223		mg/kg	5.51	0.296	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Magnesium, Total	10600		mg/kg	11.0	1.70	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Manganese, Total	411		mg/kg	1.10	0.175	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Mercury, Total	0.110		mg/kg	0.087	0.057	1	08/14/24 23:55	08/15/24 08:58	EPA 7471B	1,7471B	JWN
Nickel, Total	34.7		mg/kg	2.76	0.267	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Potassium, Total	2820		mg/kg	276	15.9	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Selenium, Total	0.297	J	mg/kg	2.20	0.284	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.551	0.312	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Sodium, Total	180	J	mg/kg	220	3.47	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.20	0.347	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Vanadium, Total	35.2		mg/kg	1.10	0.224	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Zinc, Total	244		mg/kg	5.51	0.323	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-06
Client ID: DEP51-S12-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 10:51
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	9440		mg/kg	10.8	2.91	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Antimony, Total	0.783	J	mg/kg	5.38	0.409	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Arsenic, Total	9.93		mg/kg	1.08	0.224	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Barium, Total	126		mg/kg	1.08	0.187	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.536	J	mg/kg	0.538	0.036	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.546	J	mg/kg	1.08	0.106	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Calcium, Total	26500		mg/kg	10.8	3.77	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Chromium, Total	822		mg/kg	1.08	0.103	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Cobalt, Total	12.9		mg/kg	2.15	0.179	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Copper, Total	59.0		mg/kg	1.08	0.278	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Iron, Total	18100		mg/kg	5.38	0.972	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Lead, Total	145		mg/kg	5.38	0.289	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Magnesium, Total	5630		mg/kg	10.8	1.66	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Manganese, Total	391		mg/kg	1.08	0.171	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Mercury, Total	0.173		mg/kg	0.095	0.062	1	08/14/24 23:55	08/15/24 09:01	EPA 7471B	1,7471B	JWN
Nickel, Total	46.3		mg/kg	2.69	0.261	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Potassium, Total	3740		mg/kg	269	15.5	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Selenium, Total	0.394	J	mg/kg	2.15	0.278	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.538	0.305	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Sodium, Total	170	J	mg/kg	215	3.39	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.15	0.339	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Vanadium, Total	44.0		mg/kg	1.08	0.219	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Zinc, Total	278		mg/kg	5.38	0.316	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-07
Client ID: DEP51-S13-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:05
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 98%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	8390		mg/kg	7.83	2.11	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Antimony, Total	0.646	J	mg/kg	3.92	0.298	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Arsenic, Total	6.25		mg/kg	0.783	0.163	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Barium, Total	107		mg/kg	0.783	0.136	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.451		mg/kg	0.392	0.026	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.401	J	mg/kg	0.783	0.077	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Calcium, Total	35600		mg/kg	7.83	2.74	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Chromium, Total	412		mg/kg	0.783	0.075	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Cobalt, Total	9.70		mg/kg	1.57	0.130	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Copper, Total	39.1		mg/kg	0.783	0.202	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Iron, Total	20200		mg/kg	3.92	0.707	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Lead, Total	1290		mg/kg	3.92	0.210	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Magnesium, Total	7150		mg/kg	7.83	1.21	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Manganese, Total	386		mg/kg	0.783	0.124	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Mercury, Total	0.057	J	mg/kg	0.072	0.047	1	08/14/24 23:55	08/15/24 09:04	EPA 7471B	1,7471B	JWN
Nickel, Total	29.9		mg/kg	1.96	0.190	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Potassium, Total	4260		mg/kg	196	11.3	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.57	0.202	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.392	0.222	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Sodium, Total	309		mg/kg	157	2.47	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.57	0.247	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Vanadium, Total	32.1		mg/kg	0.783	0.159	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Zinc, Total	197		mg/kg	3.92	0.230	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-08
Client ID: DEP51-S14-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:45
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 62%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12500		mg/kg	11.9	3.23	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Antimony, Total	2.05	J	mg/kg	5.97	0.454	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Arsenic, Total	6.80		mg/kg	1.19	0.248	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Barium, Total	491		mg/kg	1.19	0.208	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.725		mg/kg	0.597	0.039	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.631	J	mg/kg	1.19	0.117	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Calcium, Total	18800		mg/kg	11.9	4.18	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Chromium, Total	292		mg/kg	1.19	0.115	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Cobalt, Total	18.6		mg/kg	2.39	0.198	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Copper, Total	121		mg/kg	1.19	0.308	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Iron, Total	27000		mg/kg	5.97	1.08	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Lead, Total	253		mg/kg	5.97	0.320	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Magnesium, Total	9510		mg/kg	11.9	1.84	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Manganese, Total	456		mg/kg	1.19	0.190	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Mercury, Total	0.174		mg/kg	0.105	0.068	1	08/14/24 23:55	08/15/24 09:07	EPA 7471B	1,7471B	JWN
Nickel, Total	38.3		mg/kg	2.99	0.289	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Potassium, Total	4670		mg/kg	299	17.2	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Selenium, Total	0.326	J	mg/kg	2.39	0.308	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Silver, Total	0.731		mg/kg	0.597	0.338	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Sodium, Total	115	J	mg/kg	239	3.76	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.39	0.376	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Vanadium, Total	41.6		mg/kg	1.19	0.242	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Zinc, Total	740		mg/kg	5.97	0.350	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-09
Client ID: DEP51-S15-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:55
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 71%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	6080		mg/kg	11.0	2.97	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Antimony, Total	0.545	J	mg/kg	5.51	0.419	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Arsenic, Total	3.60		mg/kg	1.10	0.229	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Barium, Total	65.6		mg/kg	1.10	0.192	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.383	J	mg/kg	0.551	0.036	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.396	J	mg/kg	1.10	0.108	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Calcium, Total	19900		mg/kg	11.0	3.86	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Chromium, Total	57.1		mg/kg	1.10	0.106	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Cobalt, Total	6.54		mg/kg	2.20	0.183	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Copper, Total	38.3		mg/kg	1.10	0.284	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Iron, Total	12100		mg/kg	5.51	0.995	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Lead, Total	139		mg/kg	5.51	0.295	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Magnesium, Total	12100		mg/kg	11.0	1.70	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Manganese, Total	257		mg/kg	1.10	0.175	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Mercury, Total	0.101		mg/kg	0.089	0.058	1	08/14/24 23:55	08/15/24 09:11	EPA 7471B	1,7471B	JWN
Nickel, Total	12.8		mg/kg	2.75	0.267	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Potassium, Total	2230		mg/kg	275	15.9	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Selenium, Total	0.411	J	mg/kg	2.20	0.284	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.551	0.312	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Sodium, Total	99.1	J	mg/kg	220	3.47	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.20	0.347	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Vanadium, Total	23.7		mg/kg	1.10	0.224	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Zinc, Total	118		mg/kg	5.51	0.323	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-10
Client ID: DEP51-S7-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:25
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10600		mg/kg	9.55	2.58	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Antimony, Total	0.614	J	mg/kg	4.77	0.363	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Arsenic, Total	8.89		mg/kg	0.955	0.199	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Barium, Total	119		mg/kg	0.955	0.166	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.574		mg/kg	0.477	0.032	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.566	J	mg/kg	0.955	0.094	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Calcium, Total	16000		mg/kg	9.55	3.34	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Chromium, Total	660		mg/kg	0.955	0.092	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Cobalt, Total	14.3		mg/kg	1.91	0.158	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Copper, Total	45.7		mg/kg	0.955	0.246	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Iron, Total	20500		mg/kg	4.77	0.862	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Lead, Total	154		mg/kg	4.77	0.256	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Magnesium, Total	7600		mg/kg	9.55	1.47	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Manganese, Total	508		mg/kg	0.955	0.152	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Mercury, Total	0.092		mg/kg	0.087	0.057	1	08/14/24 23:55	08/15/24 09:14	EPA 7471B	1,7471B	JWN
Nickel, Total	46.6		mg/kg	2.39	0.231	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Potassium, Total	4730		mg/kg	239	13.7	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Selenium, Total	0.293	J	mg/kg	1.91	0.246	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.477	0.270	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Sodium, Total	157	J	mg/kg	191	3.01	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.91	0.301	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Vanadium, Total	42.8		mg/kg	0.955	0.194	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Zinc, Total	276		mg/kg	4.77	0.280	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-11
Client ID: DUP-S 240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 00:00
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11900		mg/kg	10.7	2.89	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Antimony, Total	0.891	J	mg/kg	5.36	0.407	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Arsenic, Total	11.6		mg/kg	1.07	0.223	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Barium, Total	150		mg/kg	1.07	0.186	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.678		mg/kg	0.536	0.035	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.709	J	mg/kg	1.07	0.105	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Calcium, Total	25900		mg/kg	10.7	3.75	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Chromium, Total	1040		mg/kg	1.07	0.103	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Cobalt, Total	16.4		mg/kg	2.14	0.178	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Copper, Total	63.9		mg/kg	1.07	0.277	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Iron, Total	22200		mg/kg	5.36	0.968	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Lead, Total	220		mg/kg	5.36	0.287	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Magnesium, Total	7370		mg/kg	10.7	1.65	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Manganese, Total	505		mg/kg	1.07	0.170	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Mercury, Total	0.206		mg/kg	0.095	0.062	1	08/14/24 23:55	08/15/24 09:24	EPA 7471B	1,7471B	JWN
Nickel, Total	60.4		mg/kg	2.68	0.259	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Potassium, Total	4870		mg/kg	268	15.4	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Selenium, Total	0.487	J	mg/kg	2.14	0.277	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Silver, Total	0.433	J	mg/kg	0.536	0.303	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Sodium, Total	165	J	mg/kg	214	3.38	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.14	0.338	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Vanadium, Total	54.2		mg/kg	1.07	0.218	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Zinc, Total	352		mg/kg	5.36	0.314	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-12
Client ID: DEP51-W5-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 12:30
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		ug/l	50.0	16.4	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Antimony, Total	ND		ug/l	20.00	2.145	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Arsenic, Total	1.310	J	ug/l	2.500	0.8250	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Barium, Total	69.37		ug/l	2.500	0.8650	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		ug/l	2.500	0.5350	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Cadmium, Total	ND		ug/l	1.000	0.2995	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Calcium, Total	94600		ug/l	500.	197.	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Chromium, Total	23850		ug/l	500.0	89.00	500	08/14/24 22:30	08/16/24 09:41	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.8738	J	ug/l	2.500	0.8150	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Copper, Total	2.974	J	ug/l	5.000	1.920	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Iron, Total	ND		ug/l	250	95.5	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Lead, Total	ND		ug/l	5.000	1.715	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Magnesium, Total	8980		ug/l	350.	121.	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Manganese, Total	ND		ug/l	5.000	2.200	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Mercury, Total	ND		ug/l	0.2000	0.0915	1	08/14/24 22:41	08/15/24 12:37	EPA 7470A	1,7470A	MJR
Nickel, Total	ND		ug/l	10.00	2.780	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Potassium, Total	14600		ug/l	500.	154.	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		ug/l	25.0	8.65	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Silver, Total	ND		ug/l	2.000	0.8150	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Sodium, Total	46400		ug/l	500.	146.	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Thallium, Total	1.018	J	ug/l	5.000	0.7150	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Vanadium, Total	ND		ug/l	25.00	7.850	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Zinc, Total	ND		ug/l	50.00	17.05	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-13
Client ID: DEP51-W6-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 12:55
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	224.		ug/l	50.0	16.4	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Antimony, Total	ND		ug/l	20.00	2.145	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Arsenic, Total	4.636		ug/l	2.500	0.8250	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Barium, Total	57.45		ug/l	2.500	0.8650	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		ug/l	2.500	0.5350	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Cadmium, Total	ND		ug/l	1.000	0.2995	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Calcium, Total	200000		ug/l	500.	197.	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Chromium, Total	33610		ug/l	500.0	89.00	500	08/14/24 22:30	08/16/24 09:46	EPA 3005A	1,6020B	EJF
Cobalt, Total	1.016	J	ug/l	2.500	0.8150	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Copper, Total	6.866		ug/l	5.000	1.920	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Iron, Total	ND		ug/l	250	95.5	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Lead, Total	ND		ug/l	5.000	1.715	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Magnesium, Total	4530		ug/l	350.	121.	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Manganese, Total	ND		ug/l	5.000	2.200	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Mercury, Total	0.0920	J	ug/l	0.2000	0.0915	1	08/14/24 22:41	08/15/24 12:47	EPA 7470A	1,7470A	MJR
Nickel, Total	ND		ug/l	10.00	2.780	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Potassium, Total	16100		ug/l	500.	154.	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		ug/l	25.0	8.65	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Silver, Total	ND		ug/l	2.000	0.8150	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Sodium, Total	60000		ug/l	500.	146.	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		ug/l	5.000	0.7150	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Vanadium, Total	15.50	J	ug/l	25.00	7.850	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Zinc, Total	ND		ug/l	50.00	17.05	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1959238-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Antimony, Total	ND		mg/kg	2.00	0.152	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Barium, Total	ND		mg/kg	0.400	0.070	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Calcium, Total	ND		mg/kg	4.00	1.40	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Cobalt, Total	ND		mg/kg	0.800	0.066	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Copper, Total	ND		mg/kg	0.400	0.103	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Iron, Total	0.623	J	mg/kg	2.00	0.361	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Lead, Total	ND		mg/kg	2.00	0.107	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Magnesium, Total	ND		mg/kg	4.00	0.616	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Manganese, Total	ND		mg/kg	0.400	0.064	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Potassium, Total	ND		mg/kg	100	5.76	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Silver, Total	ND		mg/kg	0.200	0.113	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Sodium, Total	1.29	J	mg/kg	80.0	1.26	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Thallium, Total	ND		mg/kg	0.800	0.126	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Vanadium, Total	ND		mg/kg	0.400	0.081	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1959240-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	08/14/24 23:55	08/15/24 08:07	1,7471B	JWN

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 12-13 Batch: WG1959367-1										
Aluminum, Total	ND		ug/l	10.0	3.27	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Antimony, Total	ND		ug/l	4.000	0.4290	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Arsenic, Total	ND		ug/l	0.5000	0.1650	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Barium, Total	ND		ug/l	0.5000	0.1730	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Calcium, Total	ND		ug/l	100	39.4	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Chromium, Total	ND		ug/l	1.000	0.1780	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Cobalt, Total	ND		ug/l	0.5000	0.1630	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Copper, Total	ND		ug/l	1.000	0.3840	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Iron, Total	ND		ug/l	50.0	19.1	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Lead, Total	ND		ug/l	1.000	0.3430	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Magnesium, Total	ND		ug/l	70.0	24.2	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Manganese, Total	ND		ug/l	1.000	0.4400	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Nickel, Total	ND		ug/l	2.000	0.5560	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Potassium, Total	ND		ug/l	100	30.9	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Selenium, Total	ND		ug/l	5.00	1.73	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Silver, Total	ND		ug/l	0.4000	0.1630	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Sodium, Total	ND		ug/l	100	29.3	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Thallium, Total	ND		ug/l	1.000	0.1430	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Vanadium, Total	ND		ug/l	5.000	1.570	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Zinc, Total	ND		ug/l	10.00	3.410	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 12-13 Batch: WG1959372-1										
Mercury, Total	ND		ug/l	0.2000	0.0915	1	08/14/24 22:41	08/15/24 12:31	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2445674

Report Date: 08/16/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1959238-2								
Aluminum, Total	101		-		80-120	-		
Antimony, Total	105		-		80-120	-		
Arsenic, Total	100		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	104		-		80-120	-		
Cadmium, Total	104		-		80-120	-		
Calcium, Total	103		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Cobalt, Total	103		-		80-120	-		
Copper, Total	104		-		80-120	-		
Iron, Total	106		-		80-120	-		
Lead, Total	100		-		80-120	-		
Magnesium, Total	101		-		80-120	-		
Manganese, Total	102		-		80-120	-		
Nickel, Total	101		-		80-120	-		
Potassium, Total	104		-		80-120	-		
Selenium, Total	103		-		80-120	-		
Silver, Total	105		-		80-120	-		
Sodium, Total	104		-		80-120	-		
Thallium, Total	103		-		80-120	-		
Vanadium, Total	102		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2445674

Report Date: 08/16/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1959238-2					
Zinc, Total	102	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1959240-2					
Mercury, Total	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2445674

Report Date: 08/16/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12-13 Batch: WG1959367-2					
Aluminum, Total	97	-	80-120	-	
Antimony, Total	84	-	80-120	-	
Arsenic, Total	105	-	80-120	-	
Barium, Total	98	-	80-120	-	
Beryllium, Total	102	-	80-120	-	
Cadmium, Total	101	-	80-120	-	
Calcium, Total	95	-	80-120	-	
Chromium, Total	115	-	80-120	-	
Cobalt, Total	113	-	80-120	-	
Copper, Total	111	-	80-120	-	
Iron, Total	118	-	80-120	-	
Lead, Total	102	-	80-120	-	
Magnesium, Total	105	-	80-120	-	
Manganese, Total	116	-	80-120	-	
Nickel, Total	114	-	80-120	-	
Potassium, Total	110	-	80-120	-	
Selenium, Total	103	-	80-120	-	
Silver, Total	110	-	80-120	-	
Sodium, Total	97	-	80-120	-	
Thallium, Total	106	-	80-120	-	
Vanadium, Total	110	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2445674

Report Date: 08/16/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12-13 Batch: WG1959367-2					
Zinc, Total	104	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 12-13 Batch: WG1959372-2					
Mercury, Total	104	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1959238-3 QC Sample: L2445543-14 Client ID: MS Sample												
Aluminum, Total	6530	196	6660	**66**	Q	-	-		75-125	-		20
Antimony, Total	ND	49	44.9	92		-	-		75-125	-		20
Arsenic, Total	2.69	11.8	13.7	94		-	-		75-125	-		20
Barium, Total	32.6	196	211	91		-	-		75-125	-		20
Beryllium, Total	0.349J	4.9	5.13	105		-	-		75-125	-		20
Cadmium, Total	28.1	5.2	21.9	**0**	Q	-	-		75-125	-		20
Calcium, Total	4120	980	4530	**42**	Q	-	-		75-125	-		20
Chromium, Total	102	19.6	81.9	**0**	Q	-	-		75-125	-		20
Cobalt, Total	29.1	49	69.0	81		-	-		75-125	-		20
Copper, Total	137	24.5	119	**0**	Q	-	-		75-125	-		20
Iron, Total	13800	98	14000	**204**	Q	-	-		75-125	-		20
Lead, Total	40.6	52	78.8	**74**	Q	-	-		75-125	-		20
Magnesium, Total	2710	980	3390	**69**	Q	-	-		75-125	-		20
Manganese, Total	331	49	378	96		-	-		75-125	-		20
Nickel, Total	93.4	49	100	**13**	Q	-	-		75-125	-		20
Potassium, Total	305	980	1190	90		-	-		75-125	-		20
Selenium, Total	3.06	11.8	14.3	96		-	-		75-125	-		20
Silver, Total	3.24	4.9	7.21	81		-	-		75-125	-		20
Sodium, Total	279	980	1230	97		-	-		75-125	-		20
Thallium, Total	0.492J	11.8	11.1	94		-	-		75-125	-		20
Vanadium, Total	25.5	49	77.1	105		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1959238-3 QC Sample: L2445543-14 Client ID: MS Sample										
Zinc, Total	111	49	125	**28**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1959240-3 QC Sample: L2445674-01 Client ID: DEP51-S3-240813										
Mercury, Total	0.089	1.5	1.53	96		-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12-13 QC Batch ID: WG1959367-3 QC Sample: L2445642-01 Client ID: MS Sample									
Aluminum, Total	64.2	2000	2100	102	-	-	75-125	-	20
Antimony, Total	1.753J	500	497.5	100	-	-	75-125	-	20
Arsenic, Total	2.093	120	133.2	109	-	-	75-125	-	20
Barium, Total	114.4	2000	2149	102	-	-	75-125	-	20
Beryllium, Total	ND	50	52.37	105	-	-	75-125	-	20
Cadmium, Total	0.1884J	53	55.26	104	-	-	75-125	-	20
Calcium, Total	8940	10000	18300	94	-	-	75-125	-	20
Chromium, Total	14.46	200	244.3	115	-	-	75-125	-	20
Cobalt, Total	3.631	500	578.5	115	-	-	75-125	-	20
Copper, Total	90.24	250	374.7	114	-	-	75-125	-	20
Iron, Total	6640	1000	7720	108	-	-	75-125	-	20
Lead, Total	11.33	530	576.9	107	-	-	75-125	-	20
Magnesium, Total	2980	10000	14200	112	-	-	75-125	-	20
Manganese, Total	668.0	500	1292	125	-	-	75-125	-	20
Nickel, Total	40.21	500	612.4	114	-	-	75-125	-	20
Potassium, Total	14300	10000	26700	124	-	-	75-125	-	20
Selenium, Total	ND	120	122	102	-	-	75-125	-	20
Silver, Total	ND	50	56.10	112	-	-	75-125	-	20
Sodium, Total	6880	10000	18200	113	-	-	75-125	-	20
Thallium, Total	ND	120	134.1	112	-	-	75-125	-	20
Vanadium, Total	2.160J	500	558.6	112	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12-13 QC Batch ID: WG1959367-3 QC Sample: L2445642-01 Client ID: MS Sample									
Zinc, Total	187.3	500	738.2	110	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 12-13 QC Batch ID: WG1959372-3 QC Sample: L2445674-12 Client ID: DEP51-W5-240813									
Mercury, Total	ND	5	4.907	98	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1959238-4 QC Sample: L2445543-14 Client ID: DUP Sample						
Cobalt, Total	29.1	26.2	mg/kg	10		20
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1959240-4 QC Sample: L2445674-01 Client ID: DEP51-S3-240813						
Mercury, Total	0.089	0.074J	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 12-13 QC Batch ID: WG1959367-4 QC Sample: L2445642-01 Client ID: DUP Sample						
Iron, Total	6640	6470	ug/l	3		20
Lead, Total	11.33	11.12	ug/l	2		20
Nickel, Total	40.21	39.88	ug/l	1		20
Zinc, Total	187.3	187.0	ug/l	0		20
Total Metals - Mansfield Lab Associated sample(s): 12-13 QC Batch ID: WG1959372-4 QC Sample: L2445674-12 Client ID: DEP51-W5-240813						
Mercury, Total	ND	0.1040J	ug/l	NC		20

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12-13 QC Batch ID: WG1959367-6 QC Sample: L2445642-01 Client ID: DUP Sample						
Iron, Total	6640	6520	ug/l	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-01
Client ID: DEP51-S3-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 10:45
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	4.27		mg/kg	0.908	0.182	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-02
Client ID: DEP51-S5-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 11:10
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.0		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	7.06		mg/kg	1.00	0.200	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-03
Client ID: DEP51-S6-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 11:20
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	5.04		mg/kg	0.894	0.179	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-04
Client ID: DEP51-S8A-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 11:30
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.0		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	7.30		mg/kg	1.25	0.250	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-05
Client ID: DEP51-S10A-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 11:35
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.9		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.11	0.222	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-06
Client ID: DEP51-S12-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 10:51
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.4		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.09	0.218	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-07
Client ID: DEP51-S13-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 11:05
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.6		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	18.8		mg/kg	0.820	0.164	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-08
Client ID: DEP51-S14-240813
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 08/13/24 11:45
Date Received: 08/13/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.9		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	1.13	J	mg/kg	1.29	0.258	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-09
Client ID: DEP51-S15-240813
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 08/13/24 11:55
Date Received: 08/13/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.8		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.13	0.226	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-10
Client ID: DEP51-S7-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 11:25
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.4		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	0.466	J	mg/kg	1.01	0.202	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-11
Client ID: DUP-S 240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 00:00
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.2		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.08	0.216	1	08/14/24 13:12	08/15/24 15:44	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-12
Client ID: DEP51-W5-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 12:30
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	19600		ug/l	500	150.	50	08/14/24 09:00	08/14/24 09:25	1,7196A	JBB

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-13
Client ID: DEP51-W6-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 12:55
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	28000		ug/l	1000	300.	100	08/14/24 09:00	08/14/24 09:26	1,7196A	JBB

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 12-13 Batch: WG1959146-1										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	08/14/24 09:00	08/14/24 09:21	1,7196A	JBB
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1959251-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/14/24 13:12	08/15/24 15:44	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1959316-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2445674

Report Date: 08/16/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 12-13 Batch: WG1959146-2								
Chromium, Hexavalent	97		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1959251-2								
Chromium, Hexavalent	82		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1959316-2								
Chromium, Hexavalent	86		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 12-13 QC Batch ID: WG1959146-4 QC Sample: L2445674-13 Client ID: DEP51-W6-240813												
Chromium, Hexavalent	28000	100000	37200	92		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1959251-4 QC Sample: L2445674-11 Client ID: DUP-S 240813												
Chromium, Hexavalent	ND	1490	1140	77		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1959316-4 QC Sample: L2445674-01 Client ID: DEP51-S3-240813												
Chromium, Hexavalent	4.27	1300	1100	84		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1959075-1 QC Sample: L2445674-01 Client ID: DEP51-S3-240813						
Solids, Total	88.1	88.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 12-13 QC Batch ID: WG1959146-3 QC Sample: L2445674-12 Client ID: DEP51-W5-240813						
Chromium, Hexavalent	19600	19700	ug/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1959251-6 QC Sample: L2445674-11 Client ID: DUP-S 240813						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1959316-6 QC Sample: L2445674-01 Client ID: DEP51-S3-240813						
Chromium, Hexavalent	4.27	5.53	mg/kg	**26**	Q	20

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2445674-01A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),NA-TI(180),K-TI(180),CD-TI(180),CA-TI(180)
L2445674-01B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2445674-02B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2445674-03B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2445674-04B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2445674-05B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2445674-06A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2445674-06B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-07A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2445674-07B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2445674-08B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2445674-09B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2445674-10B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-11A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2445674-11B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2445674-12A	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		AL-6020T-PPB(180),CO-6020T-PPB(180),SB-6020T-PPB(180),BE-6020T-PPB(180),CR-6020T-PPB(180),CD-6020T-PPB(180),HG-T-PPB(28),CA-6020T-PPB(180),CU-6020T-PPB(180),TL-6020T-PPB(180),BA-6020T-PPB(180),K-6020T-PPB(180),AG-6020T-PPB(180),PB-6020T-PPB(180),AS-6020T-PPB(180),FE-6020T-PPB(180),NI-6020T-PPB(180),NA-6020T-PPB(180),MG-6020T-PPB(180),ZN-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180)
L2445674-12B	Plastic 250ml unpreserved	A	7	7	2.2	Y	Absent		HEXCR-7196-PPB(1)
L2445674-13A	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		CO-6020T-PPB(180),AL-6020T-PPB(180),CD-6020T-PPB(180),SB-6020T-PPB(180),BE-6020T-PPB(180),CR-6020T-PPB(180),HG-T-PPB(28),CU-6020T-PPB(180),CA-6020T-PPB(180),TL-6020T-PPB(180),BA-6020T-PPB(180),AG-6020T-PPB(180),K-6020T-PPB(180),AS-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),NI-6020T-PPB(180),MG-6020T-PPB(180),ZN-6020T-PPB(180),V-6020T-PPB(180),SE-6020T-PPB(180),MN-6020T-PPB(180)
L2445674-13B	Plastic 250ml unpreserved	A	7	7	2.2	Y	Absent		HEXCR-7196-PPB(1)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2445674
Project Number:	30108678	**Report Date:**	08/16/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2445674
Project Number:	30108678	**Report Date:**	08/16/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2445674
Project Number:	30108678	**Report Date:**	08/16/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2445674
Project Number:	30108678	**Report Date:**	08/16/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 8/14/2024

ALPHA Job #: L2445674

Client Information

Client: Arcadis
Address: 1 Hartrand Way Ste 5
Hillsborough, NJ
Phone: 908-526-1111
Fax:
Email: Larry.Blunt@arcadis.com

Project Information

Project Name: Allstate 51st St
Project Location: Phila, PA
Project #: 30106478
(Use Project name as Project #)
Project Manager: Larry Blunt
ALPHAQuote #:

Turn-Around Time

Standard
Rush (only if pre approved)
Due Date:
# of Days: 3 Day

Deliverables

- NJ Full / Reduced
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Billing Information

- Same as Client Info

PO #

Regulatory Requirement

- SRS Residential/Non Residential
- SRS Impact to Groundwater
- NJ Ground Water Quality Standards
- NJ IGW SPLP Leachate Criteria
- Other

Site Information

Is this site impacted by Petroleum? Yes

Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
- Category 1
- Category 2

For VOC, selection is REQUIRED:
- 1,4-Dioxane
- 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

TCL VOC
TAL metals

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	TAL metals	Sample Specific Comments	Total Bottle
45674-01	DEPA1-S3-240617	8/8/24	1040	SE	MH	X	X		2
-02	DEPA1-S5-240617		1110			X	X		
-03	DEPA1-S6-240617		1120			X	X		
-04	DEPA1-S8A-240617		1130			X	X		
-05	DEPA1-S10A-240617		1135			X	X		
-06	DEPA1-S12-240617		1041			X	X		
-07	DEPA1-S13-240617		1105			X	X		
-08	DEPA1-S14-240617		1145			X	X		
-09	DEPA1-S15-240617		1155			X	X		
-10	DEPA1-S7-240617		1125			X	X		

Container Type: A A
Preservative: A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilliard	8/13/24 1800	[illegible]	8/13/24 1345
[illegible]	8/13/24 1500	[illegible]	8-13-24 1500
[illegible]	8-13-24, 1800	M.S.M (AN)	8/13 1900
			8/13 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

8/14 0140

8/14/2024

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 8/14/2024

ALPHA Job # L2445674

Client Information

Client: Arcadis
Address: 1 Harmed Way Ste 5
Mt Laurel NJ
Phone: 856-524-1200
Fax:
Email: Larry.Grant@arcadis.com

Project Information

Project Name: Allsopp St CT
Project Location: Phila PA
Project #: 30106678
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time

Standard
Rush (only if pre approved) ☒ Due Date:
# of Days: 3 day

Deliverables

NJ Full / Reduced
EQuIS (1 File) EQuIS (4 File)
Other

Regulatory Requirement

SRS Residential/Non Residential
SRS Impact to Groundwater
NJ Ground Water Quality Standards
NJ IGW SPLP Leachate Criteria
Other

Billing Information

Same as Client Info
PO #

Site Information

Is this site impacted by Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
Category 1
Category 2

For VOC, selection is REQUIRED:
1,4-Dioxane
8011

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

WPR CC TAL Metals | WPR CC TAL Metals

Sample Filtration
Done 0.45 in lab
Lab to do
Preservation
Lab to do
(Please Specify below)

Sample Specific Comments

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	WPR CC	TAL Metals	WPR CC	TAL Metals	Total Bottle
45674-11	[redacted] BH-5 240813	8/13/24	X	Soil	MH	X	X			
-12	[redacted] WS 240813		1230	AQ				X	X	
-13	[redacted] MW-240813		1255					X	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	P	P				
Preservative	A	A	A	C				

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Millsaps	8/13/24 1345	[redacted] FACT	8/13/24 1345
[redacted] (SIGNATURE)	8/13/24 1500	[redacted] (SIGNATURE)	8-13-24 1520
[redacted]	8.13.24 1852	[redacted]	8/13 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

8/14 140 8/14 0140

ANALYTICAL REPORT

Lab Number:	L2446806
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST
Project Number:	30108678
Report Date:	08/19/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2446806
Report Date: 08/19/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2446806-01	2040-P2 (9.5-10)	SOIL	PHILA, PA	03/17/23 09:15	03/17/23
L2446806-02	1043-P4 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:45	03/17/23
L2446806-03	1043-P5 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:50	03/17/23
L2446806-04	SB-304 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:20	03/17/23
L2446806-05	SB-305 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:35	03/17/23
L2446806-06	SB-305 (7.5-8)	SOIL	PHILA, PA	03/17/23 09:35	03/17/23
L2446806-07	SB-306 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:55	03/17/23
L2446806-08	SB-307 (5.5-6)	SOIL	PHILA, PA	03/17/23 11:30	03/17/23
L2446806-09	SB-309 (4.5-5)	SOIL	PHILA, PA	03/17/23 11:15	03/17/23
L2446806-10	SB-315 (2.5-3)	SOIL	PHILA, PA	03/17/23 09:30	03/17/23

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2446806
Project Number:	30108678	**Report Date:**	08/19/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2446806
Project Number:	30108678	**Report Date:**	08/19/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2446806-01: The sample has an elevated detection limit due to the dilution required by the sample matrix.

The WG1758367-8 Laboratory Duplicate RPD for chromium (58%), performed on L2446806-06, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 08/19/24

METALS

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-01
Client ID: 2040-P2 (9.5-10)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:15
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	41.1		mg/kg	2.75	0.264	5	03/21/23 05:25	03/21/23 17:54	EPA 3050B	1,6010D	DHL

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-02
Client ID: 1043-P4 (7.5-8)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:45
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	200		mg/kg	0.495	0.048	1	03/21/23 05:25	03/21/23 13:07	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-03
Client ID: 1043-P5 (7.5-8)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:50
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	63.5		mg/kg	0.552	0.053	1	03/21/23 05:25	03/21/23 13:12	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-04
Client ID: SB-304 (2.5-3)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:20
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	19.4		mg/kg	0.494	0.047	1	03/21/23 05:25	03/21/23 13:16	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-05
Client ID: SB-305 (2.5-3)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:35
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	157		mg/kg	0.477	0.046	1	03/21/23 05:25	03/21/23 13:21	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-06
Client ID: SB-305 (7.5-8)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:35
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	16.6		mg/kg	0.455	0.044	1	03/24/23 08:35	03/26/23 11:35	EPA 3050B	1,6010D	EGW

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-07
Client ID: SB-306 (2.5-3)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:55
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	7.96		mg/kg	0.508	0.049	1	03/21/23 05:25	03/21/23 13:26	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-08
Client ID: SB-307 (5.5-6)
Sample Location: PHILA, PA
Date Collected: 03/17/23 11:30
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	40.8		mg/kg	0.443	0.043	1	03/21/23 05:25	03/21/23 13:31	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-09
Client ID: SB-309 (4.5-5)
Sample Location: PHILA, PA
Date Collected: 03/17/23 11:15
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	51.2		mg/kg	0.433	0.042	1	03/21/23 05:25	03/21/23 13:35	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-10
Client ID: SB-315 (2.5-3)
Sample Location: PHILA, PA
Date Collected: 03/17/23 09:30
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	16.4		mg/kg	0.504	0.048	1	03/24/23 08:35	03/26/23 11:19	EPA 3050B	1,6010D	EGW

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2446806
Report Date: 08/19/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05,07-09 Batch: WG1756810-1										
Chromium, Total	0.071	J	mg/kg	0.400	0.038	1	03/21/23 05:25	03/21/23 10:51	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06,10 Batch: WG1758367-1										
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/24/23 08:35	03/26/23 11:10	1,6010D	EGW

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2446806

Report Date: 08/19/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,07-09 Batch: WG1756810-2 SRM Lot Number: D116-540								
Chromium, Total	91		-		81-118	-		
Total Metals - Mansfield Lab Associated sample(s): 06,10 Batch: WG1758367-2 SRM Lot Number: D116-540								
Chromium, Total	103		-		81-118	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2446806
Report Date: 08/19/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,07-09 QC Batch ID: WG1756810-3 QC Sample: L2314284-01 Client ID: MS Sample												
Chromium, Total	14.6	19	34.1	103		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 06,10 QC Batch ID: WG1758367-3 QC Sample: L2314083-07 Client ID: MS Sample												
Chromium, Total	16.6	18.2	31.7	83		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 06,10 QC Batch ID: WG1758367-7 QC Sample: L2446806-06 Client ID: SB-305 (7.5-8)												
Chromium, Total	16.6	18.2	31.7	83		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2446806

Report Date: 08/19/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,07-09 QC Batch ID: WG1756810-4 QC Sample: L2314284-01 Client ID: DUP Sample						
Chromium, Total	14.6	15.2	mg/kg	4		20
Total Metals - Mansfield Lab Associated sample(s): 06,10 QC Batch ID: WG1758367-8 QC Sample: L2446806-06 Client ID: SB-305 (7.5-8)						
Chromium, Total	16.6	30.1	mg/kg	**58**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-01
Client ID: 2040-P2 (9.5-10)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:15
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.7		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-02
Client ID: 1043-P4 (7.5-8)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:45
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.7		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-03
Client ID: 1043-P5 (7.5-8)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:50
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.6		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-04
Client ID: SB-304 (2.5-3)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:20
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-05
Client ID: SB-305 (2.5-3)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:35
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-06
Client ID: SB-305 (7.5-8)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:35
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	03/24/23 08:28	121,2540G	ROI

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-07
Client ID: SB-306 (2.5-3)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:55
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.1		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-08
Client ID: SB-307 (5.5-6)
Sample Location: PHILA, PA

Date Collected: 03/17/23 11:30
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-09
Client ID: SB-309 (4.5-5)
Sample Location: PHILA, PA

Date Collected: 03/17/23 11:15
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	03/18/23 15:15	121,2540G	ROI

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2446806
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446806-10
Client ID: SB-315 (2.5-3)
Sample Location: PHILA, PA

Date Collected: 03/17/23 09:30
Date Received: 03/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.3		%	0.100	NA	1	-	03/24/23 08:28	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2446806

Report Date: 08/19/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-09 QC Batch ID: WG1756102-1 QC Sample: L2314150-01 Client ID: DUP Sample						
Solids, Total	95.8	96.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 06,10 QC Batch ID: WG1758382-1 QC Sample: L2315307-01 Client ID: DUP Sample						
Solids, Total	88.0	90.7	%	3		20

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2446806
Project Number:	30108678	**Report Date:**	08/19/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2446806
Project Number:	30108678	**Report Date:**	08/19/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2446806
Project Number:	30108678	**Report Date:**	08/19/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2446806
Project Number:	30108678	**Report Date:**	08/19/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

L2446306 ADK 3/16/24

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 3

Date Rec'd in Lab: 3/18/23

ALPHA Job #: ~~L2314083~~

Client Information
Client: ARCADIS
Address: 1 Harvard Way Suite 1 Hillsborough #1
Phone: 908-526-1005
Fax:
Email: Larry.Brant@arcadis.com

Project Information
Project Name: Allstate 51st St
Project Location: Philly, PA
Project #: 30106679
(Use Project name as Project #)
Project Manager: Larry Brant
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved): ~~X~~
Due Date:
# of Days: 10 WD

Deliverables
- [ ] NJ Full / Reduced
- [ ] EQuIS (1 File)
- [ ] EQuIS (4 File)
- [ ] Other

Billing Information
- [ ] Same as Client Info
PO #

Regulatory Requirement
- [ ] SRS Residential/Non Residential
- [ ] SRS Impact to Groundwater
- [ ] NJ Ground Water Quality Standards
- [ ] NJ IGW SPLP Leachate Criteria
- [ ] Other

Site Information
Is this site impacted by Petroleum? Yes [ ]
Petroleum Product:

These samples have been previously analyzed by Alpha [ ]

For EPH, selection is REQUIRED:
- [ ] Category 1
- [ ] Category 2

For VOC, selection is REQUIRED:
- [ ] 1,4-Dioxane
- [ ] 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Sample Filtration
- [ ] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

Total # Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Cr	Sample Specific Comments
-01 14083-01	SB-P2 (9.5-10)	3/17/23	915	SO	MH	X	
-02 02	SB-P4 (7.5-8)		945			X	
-03 03	SB-P5 (7.5-8)		950			X	
-04 04	SB-304 (2.5-3)		920			X	
05	SB-304 (7.5-8)		930				
-05 06	SB-305 (2.5-3)		935			X	
-06 07	SB-305 (7.5-8)		940			X	
-07 08	SB-306 (2.5-3)		955			X	
09	SB-306 (7.5-8)		945				
-08 10	SB-307 (5.5-6)	↓	1130	↓	↓	X	

	Container Type	Preservative
	A	A
	A	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hollinghe	3/17/23 1814	STR AAL	3/17/23 18:15
STR AAL	3/17/23 1800		3/17/23 1800
	3/17/23 2100	404	3/17/23 2100
404	3/18/23 0120		3/18/23 0120

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

Serial_No:08192415:32

L2446806 AJK 3/16/24

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 4 of 3

Date Rec'd in Lab: 3/18/23

ALPHA Job #: ~~L2314083~~

Client Information
Client: Alfieri
Address: 1 Iverson Way Suite Hillsborough NJ
Phone: 908-874-10[illegible]
Fax:
Email: Larry.Grant@grantfirm.com

Project Information
Project Name: Alfieri Gift Street
Project Location: Phila, PA
Project #: 3010 8679
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time
Standard
Due Date:
Rush (only if pre approved)
# of Days: 4 day

Deliverables
- NJ Full / Reduced
- EQuIS (1 File) — EQuIS (4 File)
- Other

Regulatory Requirement
- SRS Residential/Non Residential
- SRS Impact to Groundwater
- NJ Ground Water Quality Standards
- NJ IGW SPLP Leachate Criteria
- Other

Billing Information
- Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
- Category 1
- Category 2

For VOC, selection is REQUIRED:
- 1,4-Dioxane
- 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials
14083-01	GR-308 (5.5-6)	3/17/23	1120	Soil	MH
02	GR-309 (4.5-5)		1115		
03	GR-310 (8.5-9)		1020		
04	GR-311 (7.5-8)		1030		
05	GR-312 (4.5-5)		1100		
06	GR-313 (7.5-8)		1040		
07	GR-314 (7.5-8)		1000		
08	GR-314 (2.5-3)		1010		
-10 09	GR-315 (2.5-3)		935		
10	~~GR-315~~ 315 (7.5-8)		945		

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	A	B
Preservative	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilinski	3/17/23 1312	AAL	3/17/23 13:15
AAL	3/17/23 1800		3/17/23 1800
	3/17/23 2100		3-17-23 2100
	3-18-23 0120		3/18/23 0120

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTITUTIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2446836
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 91ST STREET
Project Number:	30108678.01
Report Date:	08/19/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2446836
Report Date: 08/19/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2446836-01	PIPE 22 (13-13.5)	SOIL	PHILA, PA	10/22/21 11:50	10/22/21
L2446836-02	2040-P2 (4.5-5)	SOIL	PHILA, PA	10/22/21 11:45	10/22/21
L2446836-03	1044-P4 (6.5-7)	SOIL	PHILA, PA	10/22/21 10:45	10/22/21

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2446836
Project Number:	30108678.01	**Report Date:**	08/19/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2446836
Project Number:	30108678.01	**Report Date:**	08/19/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 08/19/24

METALS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2446836
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446836-01
Client ID: PIPE 22 (13-13.5)
Sample Location: PHILA, PA
Date Collected: 10/22/21 11:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	82.4		mg/kg	0.495	0.048	1	10/28/21 21:26	10/29/21 14:53	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2446836
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446836-02
Client ID: 2040-P2 (4.5-5)
Sample Location: PHILA, PA
Date Collected: 10/22/21 11:45
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	ND		mg/kg	0.414	0.040	1	10/28/21 21:26	10/29/21 14:57	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2446836
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446836-03
Client ID: 1044-P4 (6.5-7)
Sample Location: PHILA, PA
Date Collected: 10/22/21 10:45
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	329		mg/kg	0.578	0.055	1	10/28/21 21:26	10/29/21 13:38	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2446836
Report Date: 08/19/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1564387-1										
Chromium, Total	ND		mg/kg	0.400	0.038	1	10/28/21 21:26	10/29/21 13:29	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2446836

Report Date: 08/19/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1564387-2 SRM Lot Number: D109-540								
Chromium, Total	92		-		70-130	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2446836
Report Date: 08/19/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1564387-3 QC Sample: L2158883-01 Client ID: MS Sample												
Chromium, Total	7.36	16.3	25.0	108		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2446836

Report Date: 08/19/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1564387-4 QC Sample: L2158883-01 Client ID: DUP Sample						
Chromium, Total	7.36	11.0	mg/kg	**40**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2446836
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446836-01
Client ID: PIPE 22 (13-13.5)
Sample Location: PHILA, PA

Date Collected: 10/22/21 11:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2446836
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446836-02
Client ID: 2040-P2 (4.5-5)
Sample Location: PHILA, PA

Date Collected: 10/22/21 11:45
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2446836
Report Date: 08/19/24

SAMPLE RESULTS

Lab ID: L2446836-03
Client ID: 1044-P4 (6.5-7)
Sample Location: PHILA, PA

Date Collected: 10/22/21 10:45
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.2		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2446836

Report Date: 08/19/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1562240-1 QC Sample: L2157967-05 Client ID: DUP Sample						
Solids, Total	93.2	92.7	%	1		20

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2446836
Project Number:	30108678.01	**Report Date:**	08/19/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2446836
Project Number:	30108678.01	**Report Date:**	08/19/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2446836
Project Number:	30108678.01	**Report Date:**	08/19/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2446836
Project Number:	30108678.01	**Report Date:**	08/19/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No:08192415:33

L2446836 AJK 8/14/24

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10/23/21

ALPHA Job #: L2158069

Client Information
Client: Arrigoni
Address: 1 Industrial Way Ctr 9
Hillsborough, NJ
Phone: 908-926-4116
Fax:
Email: Larry.Blunt@Arrigoni.com

Project Information
Project Name: Allegiance 5/8 Church
Project Location: Phillipsburg, NJ
Project #: 3a10567B.01
(Use Project name as Project #)
Project Manager: Larry Blunt
ALPHAQuote #:

Turn-Around Time
Standard: ☒ Due Date:
Rush (only if pre approved): ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

For EPH, selection is REQUIRED: ☐ Category 1 ☐ Category 2

For VOC, selection is REQUIRED: ☐ 1,4-Dioxane ☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Sample Filtration
☒ Done ☐ Lab to do
Preservation ☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Bottle	Sample Specific Comments
-01	TW-1	10/22/21	1240	AQ	MH	3	
-02	TW-2		1325			1	
-03	TW-3		1335			3	
-04	TW-5		1400			3	
-05	Pipe 22 (13-13.5')		1150	Soil		1	
-06	2040-P2 (4.5-5')		1145			1	
-07	941 Center (11-11.5')		1115			1	
-08	1044-P4 (4.5-5')		1045			1	
-09	Right Rock		1430	AQ		4	
-10	Fifty Rock			AQ		3	*Dup-1 for Lead &

ANALYSIS: Pb 6010; 1,2,4-Trichlorobenzene 8260; Lead 6010; Lead 7421; Pb(Lead) Pb 7000; Total Cr

Container Type	AV	AV	P	A	A		
Preservative	R	R	C	A	A		

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilliard	10/22/21 1916		10/22/21 1516
	10/22/21 1800		10/22/21 1800
	10/22/21 20:35		10/22/21 2040
	10/23/21 0305		10/23/21 03:05

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Matt Hilinski
Arcadis U.S., Inc.
17-17 Route 208 North
Suite 200 West
Fair Lawn, New Jersey 07410

Generated 9/27/2024 9:39:56 AM

JOB DESCRIPTION

Alliance 51st Street

JOB NUMBER

410-188472-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

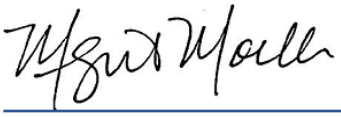
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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9/27/2024 9:39:56 AM

Authorized for release by
Megan Moeller, Client Services Manager
Megan.Moeller@et.eurofinsus.com
(717)556-7261

Compliance Statement

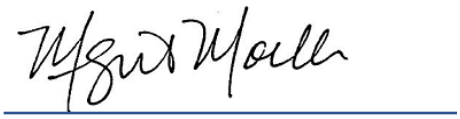
Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



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Definitions/Glossary

Client: Arcadis U.S., Inc.
Job ID: 410-188472-1
Project/Site: Alliance 51st Street

Qualifiers

General Chemistry

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-188472-1 — Eurofins Lancaster Laboratories Environment

Job Narrative
410-188472-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/17/2024 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received. The COC is missing the sample state, the sample preservation, and the number of containers per sample (2nd page only). This does not meet regulatory requirements.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 7196A: The following samples were diluted due to the nature of the sample matrix: S-18 (410-188472-3) and S-20 (410-188472-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-8A — Lab Sample ID: 410-188472-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	560		3.1	1.5	mg/Kg	10	☼	6020B	Total/NA
Cr (VI)	16		3.4	1.1	mg/Kg	5	☼	7196A	Total/NA
Cr (III)	550		0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: S-16 — Lab Sample ID: 410-188472-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	79		0.32	0.15	mg/Kg	2	☼	6020B	Total/NA
Cr (III)	79		0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: S-18 — Lab Sample ID: 410-188472-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	60		0.40	0.19	mg/Kg	2	☼	6020B	Total/NA
Cr (VI)	0.86	J cn	2.2	0.74	mg/Kg	5	☼	7196A	Total/NA
Cr (III)	59		0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: S-19 — Lab Sample ID: 410-188472-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	56		0.38	0.18	mg/Kg	2	☼	6020B	Total/NA
Cr (III)	56		0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: S-20 — Lab Sample ID: 410-188472-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	41		0.38	0.18	mg/Kg	2	☼	6020B	Total/NA
Cr (III)	41		0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: S-21 — Lab Sample ID: 410-188472-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	980		16	7.6	mg/Kg	100	☼	6020B	Total/NA
Cr (VI)	32		0.44	0.15	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	940		0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: S-22 — Lab Sample ID: 410-188472-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	160		0.42	0.20	mg/Kg	2	☼	6020B	Total/NA
Cr (VI)	3.9		0.43	0.14	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	150		0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: S-23 — Lab Sample ID: 410-188472-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	56		0.38	0.18	mg/Kg	2	☼	6020B	Total/NA
Cr (III)	56		0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DUP-1 — Lab Sample ID: 410-188472-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	980		19	9.2	mg/Kg	100	☼	6020B	Total/NA
Cr (VI)	7.7		0.45	0.15	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	970		0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-3 — Lab Sample ID: 410-188472-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	310		2.0	0.95	mg/Kg	10	☼	6020B	Total/NA
Cr (III)	310		0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: S-5 — Lab Sample ID: 410-188472-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	300		2.2	1.0	mg/Kg	10	☼	6020B	Total/NA
Cr (VI)	24		0.55	0.18	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	270		0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: S-6 — Lab Sample ID: 410-188472-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	250		1.9	0.90	mg/Kg	10	☼	6020B	Total/NA
Cr (VI)	5.8		0.48	0.16	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	250		0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: S-8A
Lab Sample ID: 410-188472-1
Date Collected: 09/16/24 10:40
Matrix: Soil
Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	550		0.011	0.0035	mg/Kg	☼		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	39.8		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-8A
Lab Sample ID: 410-188472-1
Date Collected: 09/16/24 10:40
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 60.2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	560		3.1	1.5	mg/Kg	☼	09/19/24 21:00	09/26/24 12:23	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	16		3.4	1.1	mg/Kg	☼	09/20/24 10:09	09/23/24 18:45	5

Client Sample ID: S-16
Lab Sample ID: 410-188472-2
Date Collected: 09/16/24 10:55
Matrix: Soil
Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	79		0.011	0.0035	mg/Kg	☼		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	2.0		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-16
Lab Sample ID: 410-188472-2
Date Collected: 09/16/24 10:55
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 98.0

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	79		0.32	0.15	mg/Kg	☼	09/19/24 21:00	09/26/24 12:25	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.42	0.14	mg/Kg	☼	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: S-18
Lab Sample ID: 410-188472-3
Date Collected: 09/16/24 11:00
Matrix: Soil
Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	59		0.011	0.0035	mg/Kg	☼		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	7.0		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-18
Lab Sample ID: 410-188472-3
Date Collected: 09/16/24 11:00
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 93.0

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	60		0.40	0.19	mg/Kg	☼	09/19/24 21:00	09/26/24 12:29	2

Client Sample ID: S-18
Lab Sample ID: 410-188472-3
Date Collected: 09/16/24 11:00
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 93.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	0.86	J cn	2.2	0.74	mg/Kg	☼	09/20/24 10:09	09/23/24 18:45	5

Client Sample ID: S-19
Lab Sample ID: 410-188472-4
Date Collected: 09/16/24 11:03
Matrix: Soil
Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	56		0.011	0.0035	mg/Kg	☼		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	4.5		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-19
Lab Sample ID: 410-188472-4
Date Collected: 09/16/24 11:03
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 95.5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	56		0.38	0.18	mg/Kg	☼	09/19/24 21:00	09/26/24 12:33	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.42	0.14	mg/Kg	☼	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: S-20
Lab Sample ID: 410-188472-5
Date Collected: 09/16/24 11:05
Matrix: Soil
Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	41		0.011	0.0035	mg/Kg	☼		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	7.2		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-20
Lab Sample ID: 410-188472-5
Date Collected: 09/16/24 11:05
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 92.8

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	41		0.38	0.18	mg/Kg	☼	09/19/24 21:00	09/26/24 12:43	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	2.2	0.75	mg/Kg	☼	09/20/24 10:09	09/23/24 18:45	5

Client Sample ID: S-21
Lab Sample ID: 410-188472-6
Date Collected: 09/16/24 11:10
Matrix: Soil
Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	940		0.011	0.0035	mg/Kg	☼		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	7.6		1.0	1.0	%			09/19/24 13:34	1

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-21

Lab Sample ID: 410-188472-6
Date Collected: 09/16/24 11:10
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 92.4

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	980		16	7.6	mg/Kg	☼	09/19/24 21:00	09/26/24 18:45	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	32		0.44	0.15	mg/Kg	☼	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: S-22

Lab Sample ID: 410-188472-7
Date Collected: 09/16/24 11:15
Matrix: Soil
Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	150		0.011	0.0035	mg/Kg	☼		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	4.8		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-22

Lab Sample ID: 410-188472-7
Date Collected: 09/16/24 11:15
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 95.2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	160		0.42	0.20	mg/Kg	☼	09/19/24 21:00	09/26/24 12:47	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	3.9		0.43	0.14	mg/Kg	☼	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: S-23

Lab Sample ID: 410-188472-8
Date Collected: 09/16/24 11:20
Matrix: Soil
Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	56		0.011	0.0035	mg/Kg	☼		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	3.1		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-23

Lab Sample ID: 410-188472-8
Date Collected: 09/16/24 11:20
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 96.9

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	56		0.38	0.18	mg/Kg	☼	09/19/24 21:00	09/26/24 12:51	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.43	0.14	mg/Kg	☼	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: DUP-1
Lab Sample ID: 410-188472-9
Date Collected: 09/16/24 00:00
Matrix: Soil
Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	970		0.011	0.0035	mg/Kg	☼		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	7.3		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: DUP-1
Lab Sample ID: 410-188472-9
Date Collected: 09/16/24 00:00
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 92.7

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	980		19	9.2	mg/Kg	☼	09/19/24 21:00	09/26/24 18:47	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	7.7		0.45	0.15	mg/Kg	☼	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: S-3
Lab Sample ID: 410-188472-10
Date Collected: 09/17/24 11:15
Matrix: Soil
Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	310		0.011	0.0035	mg/Kg	☼		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	5.0		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-3
Lab Sample ID: 410-188472-10
Date Collected: 09/17/24 11:15
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 95.0

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	310		2.0	0.95	mg/Kg	☼	09/19/24 21:00	09/26/24 13:07	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.43	0.14	mg/Kg	☼	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: S-5
Lab Sample ID: 410-188472-11
Date Collected: 09/17/24 11:20
Matrix: Soil
Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	270		0.011	0.0035	mg/Kg	☼		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	23.6		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-5
Lab Sample ID: 410-188472-11
Date Collected: 09/17/24 11:20
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 76.4

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	300		2.2	1.0	mg/Kg	☼	09/19/24 21:00	09/26/24 13:11	10

Client Sample ID: S-5
Lab Sample ID: 410-188472-11

Date Collected: 09/17/24 11:20
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 76.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	24		0.55	0.18	mg/Kg	☼	09/20/24 10:51	09/23/24 18:45	1

Client Sample ID: S-6
Lab Sample ID: 410-188472-12

Date Collected: 09/17/24 11:25
Matrix: Soil
Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	250		0.011	0.0035	mg/Kg	☼		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	13.1		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-6
Lab Sample ID: 410-188472-12

Date Collected: 09/17/24 11:25
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 86.9

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	250		1.9	0.90	mg/Kg	☼	09/19/24 21:00	09/26/24 12:09	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	5.8		0.48	0.16	mg/Kg	☼	09/20/24 10:09	09/23/24 18:45	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-553465/1-A ^2
Matrix: Solid
Analysis Batch: 556131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.40	0.19	mg/Kg		09/19/24 21:00	09/26/24 11:16	2

Lab Sample ID: LCS 410-553465/2-A ^2
Matrix: Solid
Analysis Batch: 556131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	50.0	50.7		mg/Kg		101	86 - 116

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 410-553700/1-A
Matrix: Solid
Analysis Batch: 554639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.42	0.14	mg/Kg		09/20/24 10:09	09/23/24 18:45	1

Lab Sample ID: LCS 410-553700/2-A
Matrix: Solid
Analysis Batch: 554639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	5.00	4.66		mg/Kg		93	80 - 120

Lab Sample ID: LCSI 410-553700/3-A
Matrix: Solid
Analysis Batch: 554639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553700

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	701	721		mg/Kg		103	80 - 120

Lab Sample ID: 410-188472-12 MSI
Matrix: Soil
Analysis Batch: 554639

Client Sample ID: S-6
Prep Type: Total/NA
Prep Batch: 553700

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	5.8		829	807		mg/Kg	☼	97	75 - 125

Lab Sample ID: 410-188472-12 MSS
Matrix: Soil
Analysis Batch: 554639

Client Sample ID: S-6
Prep Type: Total/NA
Prep Batch: 553700

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	5.8		45.8	44.2		mg/Kg	☼	84	75 - 125

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 410-188472-12 DU
Matrix: Soil
Analysis Batch: 554639

Client Sample ID: S-6
Prep Type: Total/NA
Prep Batch: 553700

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cr (VI)	5.8			6.41		mg/Kg	☼			10	20

Metals

Prep Batch: 553465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-1	S-8A	Total/NA	Soil	3050B	
410-188472-2	S-16	Total/NA	Soil	3050B	
410-188472-3	S-18	Total/NA	Soil	3050B	
410-188472-4	S-19	Total/NA	Soil	3050B	
410-188472-5	S-20	Total/NA	Soil	3050B	
410-188472-6	S-21	Total/NA	Soil	3050B	
410-188472-7	S-22	Total/NA	Soil	3050B	
410-188472-8	S-23	Total/NA	Soil	3050B	
410-188472-9	DUP-1	Total/NA	Soil	3050B	
410-188472-10	S-3	Total/NA	Soil	3050B	
410-188472-11	S-5	Total/NA	Soil	3050B	
410-188472-12	S-6	Total/NA	Soil	3050B	
MB 410-553465/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-553465/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 556131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-1	S-8A	Total/NA	Soil	6020B	553465
410-188472-2	S-16	Total/NA	Soil	6020B	553465
410-188472-3	S-18	Total/NA	Soil	6020B	553465
410-188472-4	S-19	Total/NA	Soil	6020B	553465
410-188472-5	S-20	Total/NA	Soil	6020B	553465
410-188472-7	S-22	Total/NA	Soil	6020B	553465
410-188472-8	S-23	Total/NA	Soil	6020B	553465
410-188472-10	S-3	Total/NA	Soil	6020B	553465
410-188472-11	S-5	Total/NA	Soil	6020B	553465
410-188472-12	S-6	Total/NA	Soil	6020B	553465
MB 410-553465/1-A ^2	Method Blank	Total/NA	Solid	6020B	553465
LCS 410-553465/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	553465

Analysis Batch: 556295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-6	S-21	Total/NA	Soil	6020B	553465
410-188472-9	DUP-1	Total/NA	Soil	6020B	553465

General Chemistry

Analysis Batch: 551732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-1	S-8A	Total/NA	Soil	7196A	
410-188472-2	S-16	Total/NA	Soil	7196A	
410-188472-3	S-18	Total/NA	Soil	7196A	
410-188472-4	S-19	Total/NA	Soil	7196A	
410-188472-5	S-20	Total/NA	Soil	7196A	
410-188472-6	S-21	Total/NA	Soil	7196A	
410-188472-7	S-22	Total/NA	Soil	7196A	
410-188472-8	S-23	Total/NA	Soil	7196A	
410-188472-9	DUP-1	Total/NA	Soil	7196A	
410-188472-10	S-3	Total/NA	Soil	7196A	
410-188472-11	S-5	Total/NA	Soil	7196A	
410-188472-12	S-6	Total/NA	Soil	7196A	

General Chemistry

Analysis Batch: 553323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-1	S-8A	Total/NA	Soil	Moisture	
410-188472-2	S-16	Total/NA	Soil	Moisture	
410-188472-3	S-18	Total/NA	Soil	Moisture	
410-188472-4	S-19	Total/NA	Soil	Moisture	
410-188472-5	S-20	Total/NA	Soil	Moisture	
410-188472-6	S-21	Total/NA	Soil	Moisture	
410-188472-7	S-22	Total/NA	Soil	Moisture	
410-188472-8	S-23	Total/NA	Soil	Moisture	
410-188472-9	DUP-1	Total/NA	Soil	Moisture	
410-188472-10	S-3	Total/NA	Soil	Moisture	
410-188472-11	S-5	Total/NA	Soil	Moisture	
410-188472-12	S-6	Total/NA	Soil	Moisture	

Prep Batch: 553700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-1	S-8A	Total/NA	Soil	3060A	
410-188472-2	S-16	Total/NA	Soil	3060A	
410-188472-3	S-18	Total/NA	Soil	3060A	
410-188472-4	S-19	Total/NA	Soil	3060A	
410-188472-5	S-20	Total/NA	Soil	3060A	
410-188472-6	S-21	Total/NA	Soil	3060A	
410-188472-7	S-22	Total/NA	Soil	3060A	
410-188472-8	S-23	Total/NA	Soil	3060A	
410-188472-9	DUP-1	Total/NA	Soil	3060A	
410-188472-10	S-3	Total/NA	Soil	3060A	
410-188472-11	S-5	Total/NA	Soil	3060A	
410-188472-12	S-6	Total/NA	Soil	3060A	
MB 410-553700/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 410-553700/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSI 410-553700/3-A	Lab Control Sample	Total/NA	Solid	3060A	
410-188472-12 MSI	S-6	Total/NA	Soil	3060A	
410-188472-12 MSS	S-6	Total/NA	Soil	3060A	
410-188472-12 DU	S-6	Total/NA	Soil	3060A	

Analysis Batch: 554639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-1	S-8A	Total/NA	Soil	7196A	553700
410-188472-2	S-16	Total/NA	Soil	7196A	553700
410-188472-3	S-18	Total/NA	Soil	7196A	553700
410-188472-4	S-19	Total/NA	Soil	7196A	553700
410-188472-5	S-20	Total/NA	Soil	7196A	553700
410-188472-6	S-21	Total/NA	Soil	7196A	553700
410-188472-7	S-22	Total/NA	Soil	7196A	553700
410-188472-8	S-23	Total/NA	Soil	7196A	553700
410-188472-9	DUP-1	Total/NA	Soil	7196A	553700
410-188472-10	S-3	Total/NA	Soil	7196A	553700
410-188472-11	S-5	Total/NA	Soil	7196A	553700
410-188472-12	S-6	Total/NA	Soil	7196A	553700
MB 410-553700/1-A	Method Blank	Total/NA	Solid	7196A	553700
LCS 410-553700/2-A	Lab Control Sample	Total/NA	Solid	7196A	553700
LCSI 410-553700/3-A	Lab Control Sample	Total/NA	Solid	7196A	553700

General Chemistry (Continued)

Analysis Batch: 554639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-12 MSI	S-6	Total/NA	Soil	7196A	553700
410-188472-12 MSS	S-6	Total/NA	Soil	7196A	553700
410-188472-12 DU	S-6	Total/NA	Soil	7196A	553700

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-8A
Lab Sample ID: 410-188472-1
Date Collected: 09/16/24 10:40
Matrix: Soil
Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-8A
Lab Sample ID: 410-188472-1
Date Collected: 09/16/24 10:40
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 60.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		10	556131	F7JF	ELLE	09/26/24 12:23
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		5	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-16
Lab Sample ID: 410-188472-2
Date Collected: 09/16/24 10:55
Matrix: Soil
Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-16
Lab Sample ID: 410-188472-2
Date Collected: 09/16/24 10:55
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		2	556131	F7JF	ELLE	09/26/24 12:25
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-18
Lab Sample ID: 410-188472-3
Date Collected: 09/16/24 11:00
Matrix: Soil
Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-18
Lab Sample ID: 410-188472-3
Date Collected: 09/16/24 11:00
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		2	556131	F7JF	ELLE	09/26/24 12:29

Client Sample ID: S-18

Lab Sample ID: 410-188472-3

Date Collected: 09/16/24 11:00

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		5	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-19

Lab Sample ID: 410-188472-4

Date Collected: 09/16/24 11:03

Matrix: Soil

Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-19

Lab Sample ID: 410-188472-4

Date Collected: 09/16/24 11:03

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		2	556131	F7JF	ELLE	09/26/24 12:33
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-20

Lab Sample ID: 410-188472-5

Date Collected: 09/16/24 11:05

Matrix: Soil

Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-20

Lab Sample ID: 410-188472-5

Date Collected: 09/16/24 11:05

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		2	556131	F7JF	ELLE	09/26/24 12:43
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		5	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-21

Lab Sample ID: 410-188472-6

Date Collected: 09/16/24 11:10

Matrix: Soil

Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-21

Lab Sample ID: 410-188472-6

Date Collected: 09/16/24 11:10
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		100	556295	T8CQ	ELLE	09/26/24 18:45
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-22

Lab Sample ID: 410-188472-7

Date Collected: 09/16/24 11:15
Matrix: Soil
Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-22

Lab Sample ID: 410-188472-7

Date Collected: 09/16/24 11:15
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		2	556131	F7JF	ELLE	09/26/24 12:47
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-23

Lab Sample ID: 410-188472-8

Date Collected: 09/16/24 11:20
Matrix: Soil
Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-23

Lab Sample ID: 410-188472-8

Date Collected: 09/16/24 11:20
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		2	556131	F7JF	ELLE	09/26/24 12:51
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: DUP-1
Lab Sample ID: 410-188472-9
Date Collected: 09/16/24 00:00
Matrix: Soil
Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: DUP-1
Lab Sample ID: 410-188472-9
Date Collected: 09/16/24 00:00
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		100	556295	T8CQ	ELLE	09/26/24 18:47
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-3
Lab Sample ID: 410-188472-10
Date Collected: 09/17/24 11:15
Matrix: Soil
Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-3
Lab Sample ID: 410-188472-10
Date Collected: 09/17/24 11:15
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		10	556131	F7JF	ELLE	09/26/24 13:07
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-5
Lab Sample ID: 410-188472-11
Date Collected: 09/17/24 11:20
Matrix: Soil
Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-5
Lab Sample ID: 410-188472-11
Date Collected: 09/17/24 11:20
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		10	556131	F7JF	ELLE	09/26/24 13:11

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 410-188472-1
Project/Site: Alliance 51st Street

Client Sample ID: S-5
Lab Sample ID: 410-188472-11
Date Collected: 09/17/24 11:20
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:51
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-6
Lab Sample ID: 410-188472-12
Date Collected: 09/17/24 11:25
Matrix: Soil
Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-6
Lab Sample ID: 410-188472-12
Date Collected: 09/17/24 11:25
Matrix: Soil
Date Received: 09/17/24 16:20
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		10	556131	F7JF	ELLE	09/26/24 12:09
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-24
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-25
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-24 *
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-25
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	ELLE
7196A	Chromium, Hexavalent	SW846	ELLE
7196A	Chromium, Trivalent (Colorimetric)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-188472-1	S-8A	Soil	09/16/24 10:40	09/17/24 16:20
410-188472-2	S-16	Soil	09/16/24 10:55	09/17/24 16:20
410-188472-3	S-18	Soil	09/16/24 11:00	09/17/24 16:20
410-188472-4	S-19	Soil	09/16/24 11:03	09/17/24 16:20
410-188472-5	S-20	Soil	09/16/24 11:05	09/17/24 16:20
410-188472-6	S-21	Soil	09/16/24 11:10	09/17/24 16:20
410-188472-7	S-22	Soil	09/16/24 11:15	09/17/24 16:20
410-188472-8	S-23	Soil	09/16/24 11:20	09/17/24 16:20
410-188472-9	DUP-1	Soil	09/16/24 00:00	09/17/24 16:20
410-188472-10	S-3	Soil	09/17/24 11:15	09/17/24 16:20
410-188472-11	S-5	Soil	09/17/24 11:20	09/17/24 16:20
410-188472-12	S-6	Soil	09/17/24 11:25	09/17/24 16:20

410-188472 Chain of Custody

ıvironme

Chain of Custody Record

eurofins | Environment Testing

	Sampler: Matt Hilinski	Lab PM: Megan Moeller	Carrier Tracking No(s):	COC No: 410-131322-37160.1
Client Contact: Matt Hilinski	Phone: 267-772-9341	E-Mail:	State of Origin:	Page: Page 1 of 2
Company: Arcadis U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: 1 Harvard Way Suite # 5	Due Date Requested:			Preservation Codes: N - None
City: Hillsborough	TAT Requested (days): 5 days			
State, Zip: NJ, 08844	Compliance Project: Δ Yes Δ No			
Phone: 267-772-9341	PO #: 30108678.06			
Email: matt.hilinski@arcadis.com	WO #:			
Project Name: Allgire 5/12 R	Project #:			Other:
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D, 7196A, 7196A_CR3	6020B Ni, Cr	7196A Hex Cr	7199 CR3 (Calc)	Total Number of containers	Special Instructions/Note:
		Preservation Code:				N						
S-6R	9/16/24	1040	G	Soil			1	1	1	1	1	
S-16		1055					1	1	1	1	1	
S-17		1047					1	1	1	1	1	N/a Sample
S-18		1100					1	1	1	1	1	
S-19		1103					1	1	1	1	1	
S-20		1105					1	1	1	1	1	
S-21		1110					1	1	1	1	1	
S-22		1115					1	1	1	1	1	
S-23		1120					1	1	1	1	1	
FB-1		X					1	1	1	1	1	
S-3	9/17/24	1115					1	1	1	1	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Matt Hilinski	Date/Time: 9/17/24 1325	Company: Arcadis	Received by:	Date/Time: 9/17/24 1419	Company: Eltc
Relinquished by:	Date/Time: 9/17/24 1620	Company: Eltc	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 9/17/24 1620	Company: Fleet

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 24.1 C 4.1

Ver: 05/06/2024

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Matt Hilinski	Lab PM: Megan Miller	Carrier Tracking No(s):	COC No: 410-131322-37160.2
Client Contact: Matt Hilinski	Phone: 267-772-9241	E-Mail:	State of Origin:	Page: Page 2 of 2
Company: Arcadis U.S., Inc	PWSID:	Analysis Requested		Job #:
Address: 1 Harvard Way Suite # 5	Due Date Requested:			Preservation Codes: N - None
City: Hillsborough	TAT Requested (days): 5 days			
State, Zip: NJ, 08844	Compliance Project: Δ Yes Δ No			
Phone: 267-772-9241	PO #: 35106878.08			
Email: matt.hilinski@arcadis.com	WO #:			
Project Name: Allisaile S/A St	Project #:			Other:
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D, 7196A, 7196A_CR3	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
S-9	9/17/24	1120	G	Soil			4		
S-6		1125	G				4		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Matt Hilinski	9/17/24 1727	Arcadis			
			Received by:	9/17/24 1419	Elle
Relinquished by:	Date/Time: 9/17/24 1620	Company: Elle			
			Received by:	Date/Time: 9/17/24 1620	Company: ALS

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: R 4.1 C 4.1

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 410-188472-1

Login Number: 188472

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Kanagy, Nicholas

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

ANALYTICAL REPORT

Lab Number:	L2500978
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678.07
Report Date:	01/15/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2500978
Report Date: 01/15/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2500978-01	SB-701 (0.0-0.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 09:50	01/08/25
L2500978-02	SB-701 (6-6.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 09:50	01/08/25
L2500978-03	SB-702 (0.0-0.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 10:40	01/08/25
L2500978-04	SB-702 (8.0-8.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 10:40	01/08/25
L2500978-05	SB-703 (0.0-0.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 10:15	01/08/25
L2500978-06	SB-703 (5.5-6)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 10:15	01/08/25
L2500978-07	SB-704 (0.0-0.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 12:15	01/08/25
L2500978-08	SB-704 (7.0-7.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 12:15	01/08/25
L2500978-09	SB-705 (0.0-0.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 11:55	01/08/25
L2500978-10	SB-705 (3.5-4.0)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 11:55	01/08/25
L2500978-11	SB-705 (7-7.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 11:55	01/08/25
L2500978-12	SB-706 (0.0-0.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 11:35	01/08/25
L2500978-13	SB-706 (7-7.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 11:35	01/08/25
L2500978-14	SB-707 (0.0-0.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 11:20	01/08/25
L2500978-15	SB-707 (7-7.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 11:20	01/08/25
L2500978-16	SB-708 (0.0-0.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 11:05	01/08/25
L2500978-17	SB-708 (6.5-7)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 11:05	01/08/25
L2500978-18	SB-604 (7.5-8)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 09:25	01/08/25
L2500978-19	DUP-1 (0.0-0.5)	SOIL	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 00:00	01/08/25
L2500978-20	FIELD BLANK	WATER	1646 S. 51ST ST, PHILADELPHIA, PA	01/08/25 13:30	01/08/25

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2500978
Project Number:	30108678.07	**Report Date:**	01/15/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2500978
Project Number: 30108678.07 **Report Date:** 01/15/25

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2500978-01 through -19: The sample has an elevated detection limit due to the dilution required by the sample matrix.

The WG2019376-3 MS recovery for chromium (0%), performed on L2500978-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG2019376-4 Laboratory Duplicate RPD for chromium (45%), performed on L2500978-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Chromium, Hexavalent

The WG2018526-2 LCS recovery associated with L2500978-01 through -10 is outside our in-house acceptance criteria for chromium, hexavalent (73%), but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG2018528-2 LCS recovery associated with L2500978-11 through -19 is outside our in-house acceptance criteria for chromium, hexavalent (73%), but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG2018528-4 Insoluble MS recovery for chromium, hexavalent (60%), performed on L2500978-15, is below the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (10%) was also below criteria. This has been attributed to matrix interference. A post-spike was performed with an acceptable recovery of 101%.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 01/15/25

METALS

Project Name: ALLIANCE 51ST STREET
Lab Number: L2500978
Project Number: 30108678.07
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-01
Client ID: SB-701 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 09:50
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	138		mg/kg	0.972	0.093	2	01/14/25 03:56	01/14/25 11:36	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Lab Number: L2500978
Project Number: 30108678.07
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-02
Client ID: SB-701 (6-6.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 09:50
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	2040		mg/kg	1.04	0.100	2	01/14/25 03:56	01/14/25 11:27	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-03
Client ID: SB-702 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 10:40
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	65.3		mg/kg	0.910	0.087	2	01/14/25 03:56	01/14/25 11:32	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Lab Number: L2500978
Project Number: 30108678.07
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-04
Client ID: SB-702 (8.0-8.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 10:40
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	248		mg/kg	0.869	0.083	2	01/14/25 03:56	01/14/25 12:11	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-05
Client ID: SB-703 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 10:15
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 58%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	552		mg/kg	1.32	0.126	2	01/14/25 03:56	01/14/25 12:16	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-06
Client ID: SB-703 (5.5-6)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 10:15
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	3860		mg/kg	2.58	0.248	4	01/14/25 03:56	01/14/25 14:38	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-07
Client ID: SB-704 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 12:15
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	626		mg/kg	0.952	0.091	2	01/14/25 03:56	01/14/25 12:25	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-08
Client ID: SB-704 (7.0-7.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 12:15
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	34.5		mg/kg	0.974	0.094	2	01/14/25 03:56	01/14/25 12:29	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-09
Client ID: SB-705 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:55
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 58%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	12900		mg/kg	6.78	0.651	10	01/14/25 03:56	01/14/25 14:12	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-10
Client ID: SB-705 (3.5-4.0)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:55
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 54%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	17600		mg/kg	14.3	1.37	20	01/14/25 03:56	01/14/25 14:58	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-11
Client ID: SB-705 (7-7.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:55
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	577		mg/kg	4.15	0.398	8	01/14/25 03:56	01/14/25 14:43	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-12
Client ID: SB-706 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:35
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	745		mg/kg	1.16	0.112	2	01/14/25 03:56	01/14/25 12:47	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-13
Client ID: SB-706 (7-7.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:35
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	33.4		mg/kg	2.08	0.200	4	01/14/25 03:56	01/14/25 13:52	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-14
Client ID: SB-707 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:20
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	5500		mg/kg	4.56	0.438	10	01/14/25 03:56	01/14/25 14:49	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-15
Client ID: SB-707 (7-7.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:20
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	592		mg/kg	0.980	0.094	2	01/14/25 03:56	01/14/25 13:25	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-16
Client ID: SB-708 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:05
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	506		mg/kg	0.928	0.089	2	01/14/25 03:56	01/14/25 13:29	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-17
Client ID: SB-708 (6.5-7)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:05
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	11400		mg/kg	10.5	1.01	20	01/14/25 03:56	01/14/25 14:53	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-18
Client ID: SB-604 (7.5-8)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 09:25
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1050		mg/kg	1.06	0.102	2	01/14/25 03:56	01/14/25 13:38	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-19
Client ID: DUP-1 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 00:00
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	724		mg/kg	0.960	0.092	2	01/14/25 03:56	01/14/25 13:42	EPA 3050B	1,6010D	DMC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-20
Client ID: FIELD BLANK
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 13:30
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	ND		mg/l	0.0100	0.0021	1	01/14/25 16:08	01/14/25 21:28	EPA 3005A	1,6010D	EFM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-19 Batch: WG2019376-1										
Chromium, Total	0.068	J	mg/kg	0.400	0.038	1	01/14/25 03:56	01/14/25 11:14	1,6010D	DMC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 20 Batch: WG2019626-1										
Chromium, Total	ND		mg/l	0.0100	0.0021	1	01/14/25 16:08	01/14/25 21:24	1,6010D	EFM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2500978
Report Date: 01/15/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-19 Batch: WG2019376-2								
Chromium, Total	98		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 20 Batch: WG2019626-2								
Chromium, Total	96		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2500978
Report Date: 01/15/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-19 QC Batch ID: WG2019376-3 QC Sample: L2500978-01 Client ID: SB-701 (0.0-0.5)												
Chromium, Total	138	19.6	117	**0**	Q	-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 20 QC Batch ID: WG2019626-3 QC Sample: L2501451-01 Client ID: MS Sample												
Chromium, Total	ND	0.2	0.185	92		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.07

Lab Number: L2500978

Report Date: 01/15/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-19 QC Batch ID: WG2019376-4 QC Sample: L2500978-01 Client ID: SB-701 (0.0-0.5)						
Chromium, Total	138	218	mg/kg	**45**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 20 QC Batch ID: WG2019626-4 QC Sample: L2501451-01 Client ID: DUP Sample						
Chromium, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-01
Client ID: SB-701 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 09:50
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.4		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	1.84		mg/kg	1.02	0.204	1	01/13/25 13:39	01/14/25 12:59	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-02
Client ID: SB-701 (6-6.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 09:50
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.1		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	158		mg/kg	5.40	1.08	5	01/13/25 13:39	01/14/25 12:59	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-03
Client ID: SB-702 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 10:40
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	1.14		mg/kg	0.967	0.193	1	01/13/25 13:39	01/14/25 12:59	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-04
Client ID: SB-702 (8.0-8.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 10:40
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	0.885	J	mg/kg	0.920	0.184	1	01/13/25 13:39	01/14/25 12:59	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-05
Client ID: SB-703 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 10:15
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	57.7		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	690		mg/kg	34.7	6.93	25	01/13/25 13:39	01/14/25 12:59	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-06
Client ID: SB-703 (5.5-6)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 10:15
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.3		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	4090		mg/kg	133	26.5	100	01/13/25 13:39	01/14/25 12:59	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-07
Client ID: SB-704 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 12:15
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	32.9		mg/kg	0.988	0.198	1	01/13/25 13:39	01/14/25 12:59	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-08
Client ID: SB-704 (7.0-7.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 12:15
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	0.563	J	mg/kg	0.979	0.196	1	01/13/25 13:39	01/14/25 12:59	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-09
Client ID: SB-705 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:55
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	58.1		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	1730		mg/kg	68.8	13.8	50	01/13/25 13:39	01/14/25 12:59	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-10
Client ID: SB-705 (3.5-4.0)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:55
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	53.8		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	5430		mg/kg	149	29.7	100	01/13/25 13:39	01/14/25 12:59	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-11
Client ID: SB-705 (7-7.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:55
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.6		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	157		mg/kg	5.36	1.07	5	01/13/25 13:39	01/14/25 13:52	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-12
Client ID: SB-706 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 01/08/25 11:35
Date Received: 01/08/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.5		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	0.316	J	mg/kg	1.20	0.241	1	01/13/25 13:39	01/14/25 13:52	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-13
Client ID: SB-706 (7-7.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:35
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.2		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.06	0.213	1	01/13/25 13:39	01/14/25 13:52	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-14
Client ID: SB-707 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 01/08/25 11:20
Date Received: 01/08/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.937	0.187	1	01/13/25 13:39	01/14/25 13:52	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-15
Client ID: SB-707 (7-7.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 01/08/25 11:20
Date Received: 01/08/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	01/13/25 13:39	01/14/25 13:52	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-16
Client ID: SB-708 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:05
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	11.3		mg/kg	0.950	0.190	1	01/13/25 13:39	01/14/25 13:52	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-17
Client ID: SB-708 (6.5-7)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 11:05
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.2		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.09	0.218	1	01/13/25 13:39	01/14/25 13:52	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-18
Client ID: SB-604 (7.5-8)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 09:25
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.4		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.09	0.218	1	01/13/25 13:39	01/14/25 13:52	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
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Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-19
Client ID: DUP-1 (0.0-0.5)
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Date Collected: 01/08/25 00:00
Date Received: 01/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.4		%	0.100	NA	1	-	01/09/25 11:03	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	01/13/25 13:39	01/14/25 13:52	1,7196A	RDS

Project Name: ALLIANCE 51ST STREET
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Lab Number: L2500978
Report Date: 01/15/25

SAMPLE RESULTS

Lab ID: L2500978-20
Client ID: FIELD BLANK
Sample Location: 1646 S. 51ST ST, PHILADELPHIA, PA
Sample Depth:
Matrix: Water
Date Collected: 01/08/25 13:30
Date Received: 01/08/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/09/25 01:13	01/09/25 13:24	1,7196A	DMO

Project Name: ALLIANCE 51ST STREET
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Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 20 Batch: WG2018179-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/09/25 01:13	01/09/25 13:20	1,7196A	DMO
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG2018526-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	01/13/25 13:39	01/14/25 12:59	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 11-19 Batch: WG2018528-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	01/13/25 13:39	01/14/25 13:52	1,7196A	RDS

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2500978
Report Date: 01/15/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 20 Batch: WG2018179-2								
Chromium, Hexavalent	97		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG2018526-2								
Chromium, Hexavalent	**73**	Q	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-19 Batch: WG2018528-2								
Chromium, Hexavalent	**73**	Q	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2500978
Report Date: 01/15/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 20 QC Batch ID: WG2018179-4 QC Sample: L2500978-20 Client ID: FIELD BLANK												
Chromium, Hexavalent	ND	0.1	0.100	100		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2018526-4 QC Sample: L2500978-04 Client ID: SB-702 (8.0-8.5)												
Chromium, Hexavalent	0.885J	1590	1510	95		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-19 QC Batch ID: WG2018528-4 QC Sample: L2500978-15 Client ID: SB-707 (7-7.5)												
Chromium, Hexavalent	ND	1650	986	**60**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2500978
Report Date: 01/15/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-19 QC Batch ID: WG2018043-1 QC Sample: L2500978-01 Client ID: SB-701 (0.0-0.5)						
Solids, Total	78.4	76.2	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 20 QC Batch ID: WG2018179-3 QC Sample: L2500978-20 Client ID: FIELD BLANK						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2018526-6 QC Sample: L2500978-04 Client ID: SB-702 (8.0-8.5)						
Chromium, Hexavalent	0.885J	0.885J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 11-19 QC Batch ID: WG2018528-6 QC Sample: L2500978-15 Client ID: SB-707 (7-7.5)						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2500978
Report Date: 01/15/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2500978-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-01B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-02B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-03B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-04B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-05B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-06B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-07B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-08B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-09B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-10B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-11A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-11B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2500978
Report Date: 01/15/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2500978-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-12B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-13B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-14B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-15A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-15B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-16B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-17A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-17B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-18A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-18B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-19A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		CR-TI(180)
L2500978-19B	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TS(7),HEXCR-7196(30)
L2500978-20A	Plastic 250ml unpreserved	A	7	7	3.0	Y	Absent		HEXCR-7196(1)
L2500978-20B	Plastic 250ml HNO3 preserved	A	<2	<2	3.0	Y	Absent		CR-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2500978
Project Number:	30108678.07	**Report Date:**	01/15/25

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: ALLIANCE 51ST STREET
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Report Date: 01/15/25

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Alpha SOP 23528

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Project Manager.

ALPHA ANALYTICAL LABORATORIES

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW JERSEY CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab 1/8/25

L2500978 **15JAN25**
LEVINE – NJ

Client Information

Client: Arcadis
Address: 1 Harvard Rd Ste F
Wilsborough NY
Phone: 908-526-1611
Fax: Matt.Wilson@arcadis.com
Email: Larry.Brant@arcadis.com

Project Information

Project Name: Allwine Site
Project Location: 1646 S. 61st St, Philadelphia, PA
Project #: 30105678.07
(Use Project name as Project #)
Project Manager: Larry Brant
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Site Information

Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Hold	TAL Metals							Total Bottle
00978-01	SB-701 (0.0-0.5)	1/8/25	0950	Soil	RM	X	X							2
02	SB-701 (6-6.5)		0950			X	X							
03	SB-702 (0.0-0.5)		1040			X	X							
04	SB-702 (7.0-7.5)		1040			X	X							
05	SB-703 (0.0-0.5)		1015			X	X							
06	SB-703 (5.5-6)		1015			X	X							
07	SB-704 (0.0-0.5)		1215			X	X							
08	SB-704 (7.0-7.5)		1215			X	X							
09	SB-705 (0.0-0.5)		1155			X	X							
10	SB-705 (3.5-4.0)		1155			X	X							
	Container Type					A	A							
	Preservative					A	A							

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Raymond Miller	1/8/25 15:36	PACE	1/8/25 1336
	1/8/25 1624		
FedEx	1-8-25		1/8/25 1725
			1/8/25 2045

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

1/8/25 22:45 1/8/25 22:45

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 1/8/25

ALPHA Job #: L2500978

Project Information
Project Name: Allison 51st St
Project Location: 1646 S 51st St, Phila, Pa
Project #: 3C10867807
(Use Project name as Project #) ☐
Project Manager: Larry Brant
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

Client Information
Client: Arcadis
Address: 1 Harvard Way Ste 5
Hillsborough NJ
Phone: 908-526-1100
Fax: Matt.Hillsdale@arcadis.com
Email: Larry.Brant@arcadis.com

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	HOLD CC	Total CC	Total Bottle	Sample Specific Comments
00978-11	SB-705 (7-7.5)	1/8/25	11:55	Soil	RM	x	x	2	
12	SB-706 (0.0-0.5)		11:35			x	x		
13	SB-706 (7-7.5)		11:35			x	x		
14	SB-707 (0.0-0.5)		11:20			x	x		
15	SB-707 (7-7.5)		11:20			x	x		
16	SB-708 (0.0-0.5)		11:05			x	x		
17	SB-708 (6.5-7)		11:05			x	x		
18	SB-604 (7.5-8)		9:25			x	x		
19	PUP-1 (0.0-0.5)					x	x		
20	Field Blank					x	x		

Container Type: A A
Preservative: A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Raymond Miller	1/8/25 13:26	[illegible] DACA	1/8/25 1526
[illegible]	1/8/25 1720	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1/8/25 1725
[illegible]	[illegible]	[illegible]	[illegible]

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

[illegible] 1/8/25 2245 [illegible] 01/8/25 22:45

Groundwater and Surface Water

ANALYTICAL REPORT

Lab Number:	L2158069
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 91ST STREET
Project Number:	30108678.01
Report Date:	11/05/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158069-01	TW-1	WATER	PHILA, PA	10/22/21 12:50	10/22/21
L2158069-02	TW-2	WATER	PHILA, PA	10/22/21 13:25	10/22/21
L2158069-03	TW-3	WATER	PHILA, PA	10/22/21 13:35	10/22/21
L2158069-04	TW-5	WATER	PHILA, PA	10/22/21 14:00	10/22/21
L2158069-05	PIPE 22 (13-13.5)	SOIL	PHILA, PA	10/22/21 11:50	10/22/21
L2158069-06	2040-P2 (4.5-5)	SOIL	PHILA, PA	10/22/21 11:45	10/22/21
L2158069-07	941 CENTER (11-11.5)	SOIL	PHILA, PA	10/22/21 11:15	10/22/21
L2158069-08	1044-P4 (6.5-7)	SOIL	PHILA, PA	10/22/21 10:45	10/22/21
L2158069-09	FIELD BLANK	WATER	PHILA, PA	10/22/21 14:20	10/22/21
L2158069-10	TRIP BLANK	WATER	PHILA, PA	10/22/21 00:00	10/22/21
L2158069-11	DUP-1	SOIL	PHILA, PA	10/22/21 00:00	10/22/21

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2158069-05: Sample containers for for Hold Sample VOC 8260 analysis were received for the "PIPE 22 (13-13.5)" sample, but were not listed on the chain of custody. At the client's request, the analysis was not performed.

L2158069-06: Sample containers for Hold Sample for VOC 8260 analysis were received for the "2040-P2 (4.5-5)" sample, but were not listed on the chain of custody. At the client's request, the analysis was not performed.

L2158069-08: Sample containers for Hold Sample for VOC 8260 analysis were received for the "1044-P4 (6.5-7)" sample, but were not listed on the chain of custody. At the client's request, the analysis was not performed.

L2158069-11: A sample identified as "DUP-1" was received, but not listed on the Chain of Custody. At the client's request, this sample was analyzed.

Volatile Organics

L2158069-01D and -04: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Sebastian Corbin

Title: Technical Director/Representative Date: 11/05/21

ORGANICS

VOLATILES

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-01 D
Client ID: TW-1
Sample Location: PHILA, PA
Date Collected: 10/22/21 12:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 15:07
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	65		ug/l	10	3.2	20
1,2,4-Trimethylbenzene	320		ug/l	50	3.8	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-03
Client ID: TW-3
Sample Location: PHILA, PA

Date Collected: 10/22/21 13:35
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 15:33
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	1.1	J	ug/l	2.5	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	86		70-130

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-04
Client ID: TW-5
Sample Location: PHILA, PA
Date Collected: 10/22/21 14:00
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 16:00
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	0.36	J	ug/l	0.50	0.16	1
1,2,4-Trimethylbenzene	1.5	J	ug/l	2.5	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	123		70-130

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-09
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 10/22/21 14:20
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 16:26
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	114		70-130

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-10
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 10/22/21 00:00
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/02/21 16:53
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	119		70-130

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/02/21 11:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04,09-10 Batch: WG1566554-5					
Benzene	ND		ug/l	0.50	0.16
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	113		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2158069

Report Date: 11/05/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04,09-10 Batch: WG1566554-3 WG1566554-4								
Benzene	97		97		70-130	0		20
1,2,4-Trimethylbenzene	87		90		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	88		93		70-130
Dibromofluoromethane	106		104		70-130

SEMIVOLATILES

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-07
Client ID: 941 CENTER (11-11.5)
Sample Location: PHILA, PA

Date Collected: 10/22/21 11:15
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/04/21 06:20
Analyst: JRW
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 11/03/21 09:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		mg/kg	0.19	0.057	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	47		30-120
4-Terphenyl-d14	38		18-120

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/03/21 22:28
Analyst: JRW

Extraction Method: EPA 3546
Extraction Date: 11/03/21 09:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1566536-1					
Benzo(a)pyrene	ND		mg/kg	0.13	0.040

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	70		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2158069

Report Date: 11/05/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1566536-2 WG1566536-3								
Benzo(a)pyrene	80		84		40-140	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		74		25-120
Phenol-d6	75		75		10-120
Nitrobenzene-d5	68		70		23-120
2-Fluorobiphenyl	75		75		30-120
2,4,6-Tribromophenol	89		92		10-136
4-Terphenyl-d14	84		87		18-120

METALS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-02
Client ID: TW-2
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/22/21 13:25
Date Received: 10/22/21
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.9818	J	ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 21:25	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-05
Client ID: PIPE 22 (13-13.5)
Sample Location: PHILA, PA
Date Collected: 10/22/21 11:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1520		mg/kg	2.47	0.132	1	10/28/21 21:26	10/29/21 14:53	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-06
Client ID: 2040-P2 (4.5-5)
Sample Location: PHILA, PA
Date Collected: 10/22/21 11:45
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	2.12		mg/kg	2.07	0.111	1	10/28/21 21:26	10/29/21 14:57	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE 91ST STREET
Lab Number: L2158069
Project Number: 30108678.01
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-08
Client ID: 1044-P4 (6.5-7)
Sample Location: PHILA, PA
Date Collected: 10/22/21 10:45
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	226		mg/kg	2.89	0.155	1	10/28/21 21:26	10/29/21 13:38	EPA 3050B	1,6010D	GD

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-09
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/22/21 14:20
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		ug/l	1.000	0.3430	1	10/26/21 04:58	11/02/21 19:14	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-11
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 10/22/21 00:00
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Soil
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1.63	J	mg/kg	2.04	0.110	1	10/29/21 20:57	11/01/21 12:58	EPA 3050B	1,6010D	SV

Project Name: ALLIANCE 91ST STREET **Lab Number:** L2158069

Project Number: 30108678.01 **Report Date:** 11/05/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09 Batch: WG1561405-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	10/26/21 04:58	11/02/21 20:22	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-06,08 Batch: WG1564387-1										
Lead, Total	ND		mg/kg	2.00	0.107	1	10/28/21 21:26	10/29/21 13:29	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02 Batch: WG1564853-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 19:46	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 11 Batch: WG1564921-1										
Lead, Total	0.108	J	mg/kg	2.00	0.107	1	10/29/21 20:57	11/01/21 11:39	1,6010D	SV

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2158069

Report Date: 11/05/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1561405-2								
Lead, Total	93		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 05-06,08 Batch: WG1564387-2 SRM Lot Number: D109-540								
Lead, Total	91		-		72-128	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1564853-2								
Lead, Dissolved	98		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1564921-2 SRM Lot Number: D109-540								
Lead, Total	97		-		72-128	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1561405-3 QC Sample: L2157138-01 Client ID: MS Sample												
Lead, Total	ND	530	518.1	98		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 05-06,08 QC Batch ID: WG1564387-3 QC Sample: L2158883-01 Client ID: MS Sample												
Lead, Total	3.03J	43.2	43.5	100		-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1564853-3 QC Sample: L2158069-02 Client ID: TW-2												
Lead, Dissolved	0.9818J	530	532.8	100		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1564921-3 QC Sample: L2158960-01 Client ID: MS Sample												
Lead, Total	13.2	52.2	57.2	84		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06,08 QC Batch ID: WG1564387-4 QC Sample: L2158883-01 Client ID: DUP Sample						
Lead, Total	3.03J	3.47J	mg/kg	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1564853-4 QC Sample: L2158069-02 Client ID: TW-2						
Lead, Dissolved	0.9818J	0.9661J	ug/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1564921-4 QC Sample: L2158960-01 Client ID: DUP Sample						
Lead, Total	13.2	15.7	mg/kg	17		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-05
Client ID: PIPE 22 (13-13.5)
Sample Location: PHILA, PA

Date Collected: 10/22/21 11:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-06
Client ID: 2040-P2 (4.5-5)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/22/21 11:45
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-07
Client ID: 941 CENTER (11-11.5)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/22/21 11:15
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.5		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01
Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-08
Client ID: 1044-P4 (6.5-7)
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil
Date Collected: 10/22/21 10:45
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.2		%	0.100	NA	1	-	10/23/21 08:56	121,2540G	RI

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

SAMPLE RESULTS

Lab ID: L2158069-11
Client ID: DUP-1
Sample Location: PHILA, PA

Date Collected: 10/22/21 00:00
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	11/02/21 11:10	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 91ST STREET

Project Number: 30108678.01

Lab Number: L2158069

Report Date: 11/05/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-08 QC Batch ID: WG1562240-1 QC Sample: L2157967-05 Client ID: DUP Sample						
Solids, Total	93.2	92.7	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1566003-1 QC Sample: L2157814-03 Client ID: DUP Sample						
Solids, Total	72.1	70.7	%	2		20

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158069-01A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-01B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-01C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-02A	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2158069-03A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-03B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-03C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-04A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-04B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-04C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-05A	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-05B	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-05C	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-05D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2158069-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		PB-TI(180)
L2158069-05X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-05Y	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-05Z	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-06A	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-06B	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-06C	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-06D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2158069-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		PB-TI(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 91ST STREET
Project Number: 30108678.01

Lab Number: L2158069
Report Date: 11/05/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158069-06X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-06Y	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-06Z	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-07A	Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		TS(7),PA-PAH(14)
L2158069-07B	Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14)
L2158069-08A	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-08B	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-08C	5 gram Encore Sampler	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-08D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2158069-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		PB-TI(180)
L2158069-08X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		HOLD-8260HLW(14)
L2158069-08Y	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-08Z	Vial Water preserved split	A	NA		2.2	Y	Absent	23-OCT-21 08:23	HOLD-8260HLW(14)
L2158069-09A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-09B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-09C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-09D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020T-PPB(180)
L2158069-10A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-10B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260(14)
L2158069-11A	Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		PB-TI(180)
L2158069-11X	Glass 60ml unpreserved split	A	NA		2.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 91ST STREET	**Lab Number:**	L2158069
Project Number:	30108678.01	**Report Date:**	11/05/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10/23/21

ALPHA Job #: L2158069

Client Information
Client: Arcadis
Address: 1 Universal Way 5th Fl
Hillsborough, NJ
Phone: 908-526-3161
Fax:
Email: Larry.Grant@arcadis.com

Project Information
Project Name: Alliance Pipe Street
Project Location: Phila, PA
Project #: 30106678.01
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time
Standard: X — Due Date:
Rush (only if pre approved): — # of Days:

Deliverables
- NJ Full / Reduced
- EQuIS (1 File) — EQuIS (4 File)
- Other

Regulatory Requirement
- SRS Residential/Non Residential
- SRS Impact to Groundwater
- NJ Ground Water Quality Standards
- NJ IGW SPLP Leachate Criteria
- Other

Billing Information
- Same as Client Info

PO #

Site Information
Is this site impacted by Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
- Category 1
- Category 2

For VOC, selection is REQUIRED:
- 1,4-Dioxane
- 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
- X Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Benzene	1,2,4-trimethylbenzene	Total Lead		Total Lead	Benzo(a) Pyrene			Sample Specific Comments	Total Bottle
SBC69-01	~~Equip~~ TW-1	10/20/21	1240	AQ	MT	X	X								3
-02	TW-2		1325					X							1
-03	TW-3		1335				X								3
-04	TW-4		1400			X	X								3
-05	Pipe 22 (13-13.5)		1150	Soil						X					1
-06	2040-P2 (4.5-5)		1145							X					1
-07	941 Center (11-11.5)		1115								X				1
-08	1644-P4 (4.5-5)		1645							X					1
-09	Field Blank		1420	AQ		X	X	X							4
-10	Trip Blank			AQ		X	X							* Dup for Lead *	3

Container Type								
	AV	AV	P		A	A		
Preservative	R	R	C		A	A		

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Mihlan	10/22/21 1516		10/22/21 1516
	10/22/21 1800		10/22/21 1800
	10/22/21 20:35		10/22/21 2014
	10/22/21 2030		10/23/21 0305

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTRUCTIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2158499
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE-S. 51ST STREET
Project Number:	30108678
Report Date:	11/11/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678

Lab Number: L2158499
Report Date: 11/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158499-01	MW-002	WATER	PHILADELPHIA	10/25/21 11:35	10/26/21
L2158499-02	MW-001	WATER	PHILADELPHIA	10/25/21 12:35	10/26/21
L2158499-03	MW-003	WATER	PHILADELPHIA	10/25/21 14:05	10/26/21
L2158499-04	MW-004	WATER	PHILADELPHIA	10/25/21 16:00	10/26/21
L2158499-05	DUP-1	WATER	PHILADELPHIA	10/25/21 00:00	10/26/21
L2158499-06	FIELD BLANK	WATER	PHILADELPHIA	10/25/21 12:00	10/26/21
L2158499-07	TRIP BLANK	WATER	PHILADELPHIA	10/25/21 00:00	10/26/21

Project Name:	ALLIANCE-S. 51ST STREET	**Lab Number:**	L2158499
Project Number:	30108678	**Report Date:**	11/11/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499
Project Number: 30108678 **Report Date:** 11/11/21

Case Narrative (continued)

Report Revision

November 11, 2021: The Volatile Organics analyte list has been amended on all submitted samples. The Semivolatile Organics analyte list has been amended on L2158499-03 and -04. In addition, Volatile Organics TICs have been added.

Report Submission

November 05, 2021: This final report includes the results of the Semivolatile Organics analysis performed on L2158499-03 and -04.

November 02, 2021: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2158499-04: The pH of the sample was greater than two; however, the sample was analyzed within the method required holding time.

Semivolatile Organics

L2158499-03 and -04: The sample was extracted with the method required holding time exceeded.

Semivolatile Organics by SIM

L2158499-03 and -04: The sample was extracted with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 11/11/21

ORGANICS

VOLATILES

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-01
Client ID: MW-002
Sample Location: PHILADELPHIA

Date Collected: 10/25/21 11:35
Date Received: 10/26/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 09:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	3.8	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	2.1		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	3.2	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	3.1		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	2.5	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-01 Date Collected: 10/25/21 11:35

Client ID: MW-002 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.4		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.45	J	ug/l	0.50	0.17	1
p/m-Xylene	2.0		ug/l	1.0	0.33	1
o-Xylene	4.4		ug/l	1.0	0.39	1
Xylenes, Total	6.4		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.38	J	ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	3.0		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-01 Date Collected: 10/25/21 11:35

Client ID: MW-002 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	24.4	J	ug/l			1
Unknown Aromatic	1.32	J	ug/l			1
Unknown Benzene	2.69	J	ug/l			1
Cyclopentane, Methyl-	2.10	NJ	ug/l			1
Unknown	1.89	J	ug/l			1
Unknown Benzene	1.27	J	ug/l			1
Unknown Benzene	4.10	J	ug/l			1
Indane	1.70	NJ	ug/l			1
Naphthalene	2.44	NJ	ug/l			1
Butane, 2-Methyl-	2.07	NJ	ug/l			1
Unknown Benzene	1.84	J	ug/l			1
Unknown Aromatic	1.57	J	ug/l			1
Unknown Benzene	1.41	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-01 Date Collected: 10/25/21 11:35
Client ID: MW-002 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 09:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
4-Bromofluorobenzene	91		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-02 Date Collected: 10/25/21 12:35
Client ID: MW-001 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 10:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	0.27	J	ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	6.3	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.91		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-02 Date Collected: 10/25/21 12:35

Client ID: MW-001 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.71	J	ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	1.8		ug/l	1.0	0.33	1
o-Xylene	0.42	J	ug/l	1.0	0.39	1
Xylenes, Total	2.2	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	1.1		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	0.30	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-02 Date Collected: 10/25/21 12:35

Client ID: MW-001 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	245	J	ug/l			1
Benzene, butyl-	11.4	NJ	ug/l			1
Unknown Aromatic	9.66	J	ug/l			1
Butane, 2-Methyl-	9.26	NJ	ug/l			1
Pentane, 2,3-dimethyl-	11.0	NJ	ug/l			1
Unknown Aromatic	17.9	J	ug/l			1
Butane, 2,3-Dimethyl-	18.1	NJ	ug/l			1
Indane	26.8	NJ	ug/l			1
Unknown	18.7	J	ug/l			1
Unknown Benzene	11.7	J	ug/l			1
Unknown Aromatic	8.17	J	ug/l			1
Unknown Aromatic	18.7	J	ug/l			1
Unknown Benzene	10.1	J	ug/l			1
Unknown Benzene	30.1	J	ug/l			1
Unknown Aromatic	22.9	J	ug/l			1
Unknown Cycloalkene	21.0	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	90		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-02 Date Collected: 10/25/21 12:35
Client ID: MW-001 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 10:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
4-Bromofluorobenzene	103		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03 Date Collected: 10/25/21 14:05
Client ID: MW-003 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 10:27
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	2.5	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.36	J	ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03 Date Collected: 10/25/21 14:05

Client ID: MW-003 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds					
Total TIC Compounds	1.31	J	ug/l		1
Unknown	1.31	J	ug/l		1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03 Date Collected: 10/25/21 14:05

Client ID: MW-003 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03 Date Collected: 10/25/21 14:05
Client ID: MW-003 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 10:27
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
4-Bromofluorobenzene	96		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04 Date Collected: 10/25/21 16:00
Client ID: MW-004 Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 10:51
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	14		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04 Date Collected: 10/25/21 16:00

Client ID: MW-004 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds					
Total TIC Compounds	1.88	J	ug/l		1
Unknown	1.88	J	ug/l		1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04 Date Collected: 10/25/21 16:00

Client ID: MW-004 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04
Client ID: MW-004
Sample Location: PHILADELPHIA

Date Collected: 10/25/21 16:00
Date Received: 10/26/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 10:51
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	96		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-05 Date Collected: 10/25/21 00:00

Client ID: DUP-1 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 11/01/21 11:15

Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	3.2	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.35	J	ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-05 Date Collected: 10/25/21 00:00

Client ID: DUP-1 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds					
Total TIC Compounds	1.23	J	ug/l		1
Unknown	1.23	J	ug/l		1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-05 Date Collected: 10/25/21 00:00

Client ID: DUP-1 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE-S. 51ST STREET
Lab Number: L2158499
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-05
Client ID: DUP-1
Sample Location: PHILADELPHIA
Date Collected: 10/25/21 00:00
Date Received: 10/26/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 11:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
4-Bromofluorobenzene	96		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-06 Date Collected: 10/25/21 12:00
Client ID: FIELD BLANK Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 07:40
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-06 Date Collected: 10/25/21 12:00

Client ID: FIELD BLANK Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-06
Client ID: FIELD BLANK
Sample Location: PHILADELPHIA

Date Collected: 10/25/21 12:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 07:40
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-07 Date Collected: 10/25/21 00:00
Client ID: TRIP BLANK Date Received: 10/26/21
Sample Location: PHILADELPHIA Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/21 07:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.5	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	0.63	J	ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-07 Date Collected: 10/25/21 00:00

Client ID: TRIP BLANK Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	108		70-130

Project Name: ALLIANCE-S. 51ST STREET
Lab Number: L2158499
Project Number: 30108678
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-07
Client ID: TRIP BLANK
Sample Location: PHILADELPHIA
Date Collected: 10/25/21 00:00
Date Received: 10/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 07:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
4-Bromofluorobenzene	95		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/01/21 05:18
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07 Batch: WG1565868-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/01/21 05:18
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1565885-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/01/21 05:18
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1565885-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/01/21 05:18
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1565885-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET

Project Number: 30108678

Lab Number: L2158499

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07 Batch: WG1565868-3 WG1565868-4								
1,4-Dioxane	88		81		70-130	8		25
1,1,2,2-Tetrachloroethane	93		95		70-130	2		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
4-Bromofluorobenzene	96		94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678

Lab Number: L2158499
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1565885-3 WG1565885-4								
Dichlorodifluoromethane	77		75		36-147	3		20
Chloromethane	99		95		64-130	4		20
Vinyl chloride	97		95		55-140	2		20
Bromomethane	110		100		39-139	10		20
Chloroethane	96		98		55-138	2		20
Trichlorofluoromethane	110		110		62-150	0		20
1,1-Dichloroethene	96		92		61-145	4		20
Carbon disulfide	97		93		51-130	4		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		100		70-130	0		20
Methylene chloride	94		92		70-130	2		20
Acetone	110		120		58-148	9		20
trans-1,2-Dichloroethene	97		94		70-130	3		20
Methyl Acetate	110		110		70-130	0		20
Methyl tert butyl ether	82		85		63-130	4		20
1,1-Dichloroethane	100		100		70-130	0		20
cis-1,2-Dichloroethene	96		97		70-130	1		20
Cyclohexane	110		110		70-130	0		20
Bromochloromethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
2-Butanone	110		110		63-138	0		20
Benzene	97		97		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678

Lab Number: L2158499
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1565885-3 WG1565885-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	96		96		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Bromodichloromethane	97		98		67-130	1		20
cis-1,3-Dichloropropene	88		90		70-130	2		20
Toluene	100		100		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
4-Methyl-2-pentanone	83		89		59-130	7		20
trans-1,3-Dichloropropene	87		88		70-130	1		20
1,1,2-Trichloroethane	96		94		70-130	2		20
Dibromochloromethane	96		99		63-130	3		20
1,2-Dibromoethane	90		93		70-130	3		20
2-Hexanone	91		95		57-130	4		20
Chlorobenzene	100		97		75-130	3		20
Ethylbenzene	100		100		70-130	0		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	100		100		70-130	0		20
Styrene	105		105		70-130	0		20
Bromoform	89		95		54-136	7		20
Isopropylbenzene	90		94		70-130	4		20
1,2,4-Trimethylbenzene	92		94		70-130	2		20
1,3-Dichlorobenzene	96		97		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET

Project Number: 30108678

Lab Number: L2158499

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1565885-3 WG1565885-4								
1,4-Dichlorobenzene	95		97		70-130	2		20
1,2-Dichlorobenzene	93		96		70-130	3		20
1,2-Dibromo-3-chloropropane	85		90		41-144	6		20
1,2,4-Trichlorobenzene	84		88		70-130	5		20
1,2,3-Trichlorobenzene	85		90		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	93		92		70-130
Dibromofluoromethane	100		99		70-130

SEMIVOLATILES

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03
Client ID: MW-003
Sample Location: PHILADELPHIA

Date Collected: 10/25/21 14:05
Date Received: 10/26/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/04/21 14:33
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		ug/l	5.0	0.53	1
Phenol	ND		ug/l	5.0	0.57	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Acetophenone	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
Nitrobenzene	ND		ug/l	1.4	0.77	1
Isophorone	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	5.0	0.85	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
Naphthalene	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	3.7	1.1	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Caprolactam	ND		ug/l	10	3.3	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.44	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Biphenyl	ND		ug/l	2.0	0.46	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03 Date Collected: 10/25/21 14:05

Client ID: MW-003 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		ug/l	2.0	0.46	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
Acenaphthene	ND		ug/l	2.0	0.53	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Fluorene	ND		ug/l	2.0	0.41	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Atrazine	ND		ug/l	3.0	0.76	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Anthracene	ND		ug/l	2.0	0.33	1
Carbazole	ND		ug/l	2.0	0.49	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Fluoranthene	ND		ug/l	2.0	0.26	1
Pyrene	ND		ug/l	2.0	0.28	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
Chrysene	ND		ug/l	2.0	0.34	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	47		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	59		41-149

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-03
Client ID: MW-003
Sample Location: PHILADELPHIA

Date Collected: 10/25/21 14:05
Date Received: 10/26/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/04/21 12:29
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02	1
n-Nitrosodi-n-propylamine	ND		ug/l	0.10	0.01	1
Hexachloroethane	ND		ug/l	0.20	0.06	1
Hexachlorobenzene	ND		ug/l	0.02	0.01	1
Pentachlorophenol	ND		ug/l	0.10	0.01	1
Benzo(a)anthracene	ND		ug/l	0.05	0.02	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	1.0	0.51	1
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	ND		ug/l	0.05	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	68		41-149

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04
Client ID: MW-004
Sample Location: PHILADELPHIA

Date Collected: 10/25/21 16:00
Date Received: 10/26/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/04/21 14:57
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		ug/l	5.0	0.53	1
Phenol	ND		ug/l	5.0	0.57	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Acetophenone	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
Nitrobenzene	ND		ug/l	1.4	0.77	1
Isophorone	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	5.0	0.85	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
Naphthalene	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	3.7	1.1	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Caprolactam	ND		ug/l	10	3.3	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.44	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Biphenyl	ND		ug/l	2.0	0.46	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04 Date Collected: 10/25/21 16:00

Client ID: MW-004 Date Received: 10/26/21

Sample Location: PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		ug/l	2.0	0.46	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
Acenaphthene	ND		ug/l	2.0	0.53	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Fluorene	ND		ug/l	2.0	0.41	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Atrazine	ND		ug/l	3.0	0.76	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Anthracene	ND		ug/l	2.0	0.33	1
Carbazole	ND		ug/l	2.0	0.49	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Fluoranthene	ND		ug/l	2.0	0.26	1
Pyrene	ND		ug/l	2.0	0.28	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
Chrysene	ND		ug/l	2.0	0.34	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	60		41-149

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158499-04
Client ID: MW-004
Sample Location: PHILADELPHIA

Date Collected: 10/25/21 16:00
Date Received: 10/26/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/04/21 13:08
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02	1
n-Nitrosodi-n-propylamine	ND		ug/l	0.10	0.01	1
Hexachloroethane	ND		ug/l	0.20	0.06	1
Hexachlorobenzene	ND		ug/l	0.02	0.01	1
Pentachlorophenol	ND		ug/l	0.10	0.01	1
Benzo(a)anthracene	ND		ug/l	0.05	0.02	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	1.0	0.51	1
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	ND		ug/l	0.05	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	70		41-149

Project Name: ALLIANCE-S. 51ST STREET **Lab Number:** L2158499

Project Number: 30108678 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/21 09:02
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1566395-1					
Benzaldehyde	ND		ug/l	5.0	0.53
Phenol	ND		ug/l	5.0	0.57
2-Chlorophenol	ND		ug/l	2.0	0.48
2-Methylphenol	ND		ug/l	5.0	0.49
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Acetophenone	ND		ug/l	5.0	0.53
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
Nitrobenzene	ND		ug/l	1.4	0.77
Isophorone	ND		ug/l	5.0	1.2
2-Nitrophenol	ND		ug/l	5.0	0.85
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
Naphthalene	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	3.7	1.1
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Caprolactam	ND		ug/l	10	3.3
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Methylnaphthalene	ND		ug/l	2.0	0.45
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.44
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Biphenyl	ND		ug/l	2.0	0.46
2-Chloronaphthalene	ND		ug/l	2.0	0.44
2-Nitroaniline	ND		ug/l	5.0	0.50
Dimethyl phthalate	ND		ug/l	5.0	1.8
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Acenaphthylene	ND		ug/l	2.0	0.46

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/21 09:02
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1566395-1					
3-Nitroaniline	ND		ug/l	5.0	0.81
Acenaphthene	ND		ug/l	2.0	0.53
2,4-Dinitrophenol	ND		ug/l	20	6.6
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
Dibenzofuran	ND		ug/l	2.0	0.50
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84
Diethyl phthalate	ND		ug/l	5.0	0.38
Fluorene	ND		ug/l	2.0	0.41
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Nitroaniline	ND		ug/l	5.0	0.80
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
NDPA/DPA	ND		ug/l	2.0	0.42
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Atrazine	ND		ug/l	3.0	0.76
Phenanthrene	ND		ug/l	2.0	0.33
Anthracene	ND		ug/l	2.0	0.33
Carbazole	ND		ug/l	2.0	0.49
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Fluoranthene	ND		ug/l	2.0	0.26
Pyrene	ND		ug/l	2.0	0.28
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
Chrysene	ND		ug/l	2.0	0.34
Di-n-octylphthalate	ND		ug/l	5.0	1.3

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/04/21 09:02
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1566395-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	60		41-149

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678
Lab Number: L2158499
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/04/21 11:31
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 11/03/21 05:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03-04 Batch: WG1566396-1					
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02
n-Nitrosodi-n-propylamine	ND		ug/l	0.10	0.01
Hexachloroethane	ND		ug/l	0.20	0.06
Hexachlorobenzene	ND		ug/l	0.02	0.01
Pentachlorophenol	ND		ug/l	0.10	0.01
Benzo(a)anthracene	ND		ug/l	0.05	0.02
Bis(2-ethylhexyl)phthalate	ND		ug/l	1.0	0.51
Benzo(b)fluoranthene	ND		ug/l	0.05	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Dibenzo(a,h)anthracene	ND		ug/l	0.05	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	73		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678

Lab Number: L2158499
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1566395-2 WG1566395-3								
Benzaldehyde	59		59		40-140	0		30
Phenol	50		52		12-110	4		30
2-Chlorophenol	62		65		27-123	5		30
2-Methylphenol	65		68		30-130	5		30
Bis(2-chloroisopropyl)ether	47		48		40-140	2		30
Acetophenone	62		64		39-129	3		30
3-Methylphenol/4-Methylphenol	64		67		30-130	5		30
Nitrobenzene	69		71		40-140	3		30
Isophorone	62		63		40-140	2		30
2-Nitrophenol	77		82		30-130	6		30
2,4-Dimethylphenol	65		66		30-130	2		30
Bis(2-chloroethoxy)methane	68		71		40-140	4		30
2,4-Dichlorophenol	62		64		30-130	3		30
Naphthalene	55		56		40-140	2		30
4-Chloroaniline	**33**	Q	**30**	Q	40-140	10		30
Hexachlorobutadiene	45		44		40-140	2		30
Caprolactam	25		25		10-130	0		30
p-Chloro-m-cresol	64		66		23-97	3		30
2-Methylnaphthalene	57		57		40-140	0		30
Hexachlorocyclopentadiene	50		50		40-140	0		30
1,2,4,5-Tetrachlorobenzene	49		48		2-134	2		30
2,4,6-Trichlorophenol	51		53		30-130	4		30
2,4,5-Trichlorophenol	53		55		30-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678

Lab Number: L2158499
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1566395-2 WG1566395-3								
Biphenyl	53		54		40-140	2		30
2-Chloronaphthalene	53		54		40-140	2		30
2-Nitroaniline	69		72		52-143	4		30
Dimethyl phthalate	55		57		40-140	4		30
2,6-Dinitrotoluene	62		62		40-140	0		30
Acenaphthylene	54		55		45-123	2		30
3-Nitroaniline	58		62		25-145	7		30
Acenaphthene	58		61		37-111	5		30
2,4-Dinitrophenol	73		68		20-130	7		30
4-Nitrophenol	71		74		10-80	4		30
2,4-Dinitrotoluene	66		70		48-143	6		30
Dibenzofuran	57		58		40-140	2		30
2,3,4,6-Tetrachlorophenol	**53**	Q	55		54-145	4		30
Diethyl phthalate	62		65		40-140	5		30
Fluorene	57		61		40-140	7		30
4-Chlorophenyl phenyl ether	53		54		40-140	2		30
4-Nitroaniline	66		70		51-143	6		30
4,6-Dinitro-o-cresol	76		77		20-164	1		30
NDPA/DPA	57		58		40-140	2		30
4-Bromophenyl phenyl ether	57		60		40-140	5		30
Atrazine	70		71		40-140	1		30
Phenanthrene	57		60		40-140	5		30
Anthracene	56		60		40-140	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET

Project Number: 30108678

Lab Number: L2158499

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1566395-2 WG1566395-3								
Carbazole	58		62		55-144	7		30
Di-n-butylphthalate	58		61		40-140	5		30
Fluoranthene	54		57		40-140	5		30
Pyrene	53		56		26-127	6		30
Butyl benzyl phthalate	65		67		40-140	3		30
3,3'-Dichlorobenzidine	55		54		40-140	2		30
Chrysene	59		60		40-140	2		30
Di-n-octylphthalate	69		69		40-140	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		62		21-120
Phenol-d6	49		52		10-120
Nitrobenzene-d5	71		73		23-120
2-Fluorobiphenyl	48		49		15-120
2,4,6-Tribromophenol	69		72		10-120
4-Terphenyl-d14	54		55		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE-S. 51ST STREET

Project Number: 30108678

Lab Number: L2158499

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03-04 Batch: WG1566396-2 WG1566396-3								
Bis(2-chloroethyl)ether	56		61		40-140	9		40
n-Nitrosodi-n-propylamine	58		65		40-140	11		40
Hexachloroethane	52		56		40-140	7		40
Hexachlorobenzene	59		65		40-140	10		40
Pentachlorophenol	57		62		9-103	8		40
Benzo(a)anthracene	58		65		40-140	11		40
Bis(2-ethylhexyl)phthalate	62		77		40-140	22		40
Benzo(b)fluoranthene	65		77		40-140	17		40
Benzo(k)fluoranthene	60		67		40-140	11		40
Benzo(a)pyrene	60		68		40-140	13		40
Indeno(1,2,3-cd)pyrene	67		76		40-140	13		40
Dibenzo(a,h)anthracene	65		75		40-140	14		40
Benzo(ghi)perylene	63		72		40-140	13		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	49		52		21-120
Phenol-d6	44		47		10-120
Nitrobenzene-d5	60		66		23-120
2-Fluorobiphenyl	62		68		15-120
2,4,6-Tribromophenol	63		73		10-120
4-Terphenyl-d14	61		68		41-149

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678

Lab Number: L2158499
Report Date: 11/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
F	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158499-01A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-01B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-01C	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-01D	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2158499-01E	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-TOTAL(180)
L2158499-01F	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-01G	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-02A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-02B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-02C	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-02D	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2158499-02E	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-TOTAL(180)
L2158499-02F	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-02G	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-03A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-03B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-03C	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-03D	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2158499-03E	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-TOTAL(180)
L2158499-03F	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7),PA-8270SIM-LVI(7),PA-8270-LVI(7)
L2158499-03G	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7),PA-8270SIM-LVI(7),PA-8270-LVI(7)
L2158499-04A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE-S. 51ST STREET
Project Number: 30108678

Lab Number: L2158499
Report Date: 11/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158499-04B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-04C	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-04D	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2158499-04E	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-TOTAL(180)
L2158499-04F	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-04G	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-05A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-05B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-05C	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-05D	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2158499-05E	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-TOTAL(180)
L2158499-05F	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-05G	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-06A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-06B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-06C	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-06D	Plastic 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2158499-06E	Plastic 250ml HNO3 preserved	F	<2	<2	3.2	Y	Absent		HOLD-METAL-TOTAL(180)
L2158499-06F	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-06G	Amber 250ml unpreserved	F	7	7	3.2	Y	Absent		HOLD-8270(7)
L2158499-07A	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158499-07B	Vial HCl preserved	F	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE-S. 51ST STREET	**Lab Number:**	L2158499
Project Number:	30108678	**Report Date:**	11/11/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST STREET	**Lab Number:**	L2158499
Project Number:	30108678	**Report Date:**	11/11/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST STREET	**Lab Number:**	L2158499
Project Number:	30108678	**Report Date:**	11/11/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE-S. 51ST STREET	**Lab Number:**	L2158499
Project Number:	30108678	**Report Date:**	11/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 1 of 1

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158499

Client Information
Client: Arcadis
Address: 1 Harvard Way Suite 5 Hillsborough, NJ
Phone: 9085261000
Fax:
Email: larry.brunt@arcadis.com

Project Information
Project Name: Alliance - S. 51st Street
Project Location: Philadelphia
Project #: 30108078
(Use Project name as Project #)
Project Manager: Lawrence Brunt
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

For EPH, selection is REQUIRED: ☐ Category 1 ☐ Category 2

For VOC, selection is REQUIRED: ☐ 1,4-Dioxane ☐ 8011

Other project specific requirements/comments:
H - Sample on Hold
Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☑ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	Base Neutrals	Total Metals	Dissolved Metals * Field Filtered				Sample Specific Comments	Total Bottle
58499-01	MW-002	10/25/21	1135	GW	NS	X	H	H	H					7
-02	MW-001	"	1235	"	"	X	H	H	H					7
-03	MW-003	"	1405	"	"	X	H	H	H					7
-04	MW-004	"	1600	"	"	X	H	H	H					7
-05	DUP-1	"	—	"	"	X	H	H	H					7
-06	Field Blank	"	1200	FB	"	X	H	H	H					16
-07	Trip Blank	—	—	TB	WB	X								2

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	AV	A	P	P				
Preservative	B	A	C	C				

Relinquished By:	Date/Time	Received By:	Date/Time
Maria Nichols	10/26/21 1215	ST AAL	10/26/21 13:40
ST	10/26/21 1800		10/26/21 1900
	10/26/21 2130		10/26/21 21:30
AAL	10/27/21	AAL	10/27/21 0150
AAL	10/27/21 0330		10/27/21 03:35

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2158070
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678.01
Report Date:	11/11/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01

Lab Number: L2158070
Report Date: 11/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158070-01	TW-1	WATER	PHILA, PA	10/22/21 12:50	10/22/21
L2158070-02	TW-2	WATER	PHILA, PA	10/22/21 13:25	10/22/21
L2158070-03	TW-3	WATER	PHILA, PA	10/22/21 13:35	10/22/21
L2158070-04	TW-5	WATER	PHILA, PA	10/22/21 14:00	10/22/21

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2158070
Project Number:	30108678.01	**Report Date:**	11/11/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2158070
Project Number:	30108678.01	**Report Date:**	11/11/21

Case Narrative (continued)

Report Revision

November 11, 2021: The Volatile Organics analyte list has been amended on L2158070-01 through -04. In addition, TICs have been added.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2158070-03E and -04E: An extra sample container for Total Metals was received.

Volatile Organics

L2158070-01: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (137%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2158070-04: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

Volatile Organics by SIM

L2158070-01 and -04: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

Total Metals

L2158070-01: The sample has elevated detection limits due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 11/11/21

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-01
Client ID: TW-1
Sample Location: PHILA, PA

Date Collected: 10/22/21 12:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 15:08
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.72	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	78		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	66		ug/l	0.50	0.16	1
1,2-Dichloroethane	1.5		ug/l	0.50	0.13	1
Methyl cyclohexane	110		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-01
Client ID: TW-1
Sample Location: PHILA, PA
Date Collected: 10/22/21 12:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	95		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	0.88		ug/l	0.50	0.18	1
Ethylbenzene	79		ug/l	0.50	0.17	1
p/m-Xylene	180		ug/l	1.0	0.33	1
o-Xylene	60		ug/l	1.0	0.39	1
Xylenes, Total	240		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	35		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	390	E	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-01 Date Collected: 10/22/21 12:50

Client ID: TW-1 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	313	J	ug/l			1
Unknown Cycloalkane	13.0	J	ug/l			1
Unknown	12.2	J	ug/l			1
Heptane, 2-methyl-	13.8	NJ	ug/l			1
Hexane, 3-methyl-	16.8	NJ	ug/l			1
Octane	20.6	NJ	ug/l			1
Unknown Benzene	12.8	J	ug/l			1
Unknown Cyclohexane	20.8	J	ug/l			1
Cyclopentane, Methyl-	26.2	NJ	ug/l			1
Unknown	25.6	J	ug/l			1
Pentane, 2-methyl-	47.8	NJ	ug/l			1
Unknown Benzene	12.7	J	ug/l			1
Butane, 2-Methyl-	37.9	NJ	ug/l			1
Pentane	13.2	NJ	ug/l			1
Pentane, 3-methyl-	26.0	NJ	ug/l			1
Decane (C10)	13.8	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	**137**	Q	70-130
Dibromofluoromethane	77		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-01
Client ID: TW-1
Sample Location: PHILA, PA

Date Collected: 10/22/21 12:50
Date Received: 10/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/04/21 15:08
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
4-Bromofluorobenzene	**138**	Q	70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-02
Client ID: TW-2
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:25
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 13:57
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	7.1		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	0.35	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.30	J	ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	4.0	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-02 Date Collected: 10/22/21 13:25

Client ID: TW-2 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.86		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.21	J	ug/l	0.50	0.17	1
p/m-Xylene	0.71	J	ug/l	1.0	0.33	1
o-Xylene	0.41	J	ug/l	1.0	0.39	1
Xylenes, Total	1.1	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	5.8		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	0.96	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.58	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	0.33	J	ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-02 Date Collected: 10/22/21 13:25

Client ID: TW-2 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	342	J	ug/l			1
Unknown Aromatic	18.4	J	ug/l			1
Unknown Aromatic	55.2	J	ug/l			1
Unknown Benzene	20.7	J	ug/l			1
Pentane, 2,3,3-trimethyl-	17.0	NJ	ug/l			1
Unknown Alkane	16.4	J	ug/l			1
Unknown Benzene	22.2	J	ug/l			1
Benzene, 1-propenyl-	48.9	NJ	ug/l			1
Unknown	14.3	J	ug/l			1
Unknown	14.1	J	ug/l			1
Unknown Aromatic	16.5	J	ug/l			1
Unknown Naphthalene	15.6	J	ug/l			1
Pentane, 2,3,4-trimethyl-	10.7	NJ	ug/l			1
Unknown Benzene	9.77	J	ug/l			1
Unknown Naphthalene	22.4	J	ug/l			1
Unknown Benzene	40.0	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2158070
Project Number: 30108678.01
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-02
Client ID: TW-2
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:25
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/04/21 13:57
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-03
Client ID: TW-3
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:35
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 14:21
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.45	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	7.1	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.24	J	ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	8.6	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-03
Client ID: TW-3
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:35
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.42	J	ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	1.6		ug/l	0.50	0.18	1
Ethylbenzene	22		ug/l	0.50	0.17	1
p/m-Xylene	1.5		ug/l	1.0	0.33	1
o-Xylene	0.57	J	ug/l	1.0	0.39	1
Xylenes, Total	2.1	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	4.3		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	1.4	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	0.20	J	ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.85	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-03 Date Collected: 10/22/21 13:35

Client ID: TW-3 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	199	J	ug/l			1
Unknown Alkane	21.1	J	ug/l			1
Unknown Benzene	6.58	J	ug/l			1
Benzene, 1-propenyl-	20.1	NJ	ug/l			1
Benzene, Propyl-	13.4	NJ	ug/l			1
Unknown Cycloalkane	7.73	J	ug/l			1
Unknown Aromatic	8.91	J	ug/l			1
Unknown	20.9	J	ug/l			1
Unknown Alkane	27.2	J	ug/l			1
Unknown Aromatic	7.62	J	ug/l			1
Unknown Aromatic	14.9	J	ug/l			1
Hexane, 3-methyl-	6.81	NJ	ug/l			1
Pentane, 2,3,4-trimethyl-	14.5	NJ	ug/l			1
Unknown	10.9	J	ug/l			1
Unknown Benzene	12.3	J	ug/l			1
Unknown Aromatic	5.75	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-03
Client ID: TW-3
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:35
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/04/21 14:21
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
4-Bromofluorobenzene	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-04
Client ID: TW-5
Sample Location: PHILA, PA

Date Collected: 10/22/21 14:00
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 14:45
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	13		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.32	J	ug/l	0.50	0.16	1
1,2-Dichloroethane	0.21	J	ug/l	0.50	0.13	1
Methyl cyclohexane	0.41	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-04 Date Collected: 10/22/21 14:00

Client ID: TW-5 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.2		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.20	J	ug/l	0.50	0.17	1
p/m-Xylene	0.69	J	ug/l	1.0	0.33	1
o-Xylene	0.49	J	ug/l	1.0	0.39	1
Xylenes, Total	1.2	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,4-Trimethylbenzene	1.3	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-04 Date Collected: 10/22/21 14:00

Client ID: TW-5 Date Received: 10/22/21

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	179	J	ug/l			1
Unknown Alkane	13.4	J	ug/l			1
Unknown	15.8	J	ug/l			1
Unknown Alkane	5.31	J	ug/l			1
Unknown Alkane	5.72	J	ug/l			1
Unknown Alkane	5.93	J	ug/l			1
Unknown Alkane	28.7	J	ug/l			1
Unknown Benzene	7.03	J	ug/l			1
Unknown Naphthalene	8.89	J	ug/l			1
Unknown Aromatic	6.11	J	ug/l			1
Undecane, 2,6-dimethyl-	15.2	NJ	ug/l			1
Unknown Alkane	38.6	J	ug/l			1
Unknown Benzene	5.50	J	ug/l			1
Unknown Alkane	6.00	J	ug/l			1
Unknown Aromatic	5.33	J	ug/l			1
Unknown Alkane	11.2	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-04
Client ID: TW-5
Sample Location: PHILA, PA
Date Collected: 10/22/21 14:00
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/04/21 14:45
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
4-Bromofluorobenzene	100		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:13
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1567476-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:13
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1567476-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:13
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1567476-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2158070

Project Number: 30108678.01 **Report Date:** 11/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 11/04/21 08:13
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-04 Batch: WG1567480-5					
1,4-Dioxane	1.1	J	ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
4-Bromofluorobenzene	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.01

Lab Number: L2158070

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1567476-3 WG1567476-4								
Dichlorodifluoromethane	92		91		36-147	1		20
Chloromethane	110		100		64-130	10		20
Vinyl chloride	97		96		55-140	1		20
Bromomethane	69		69		39-139	0		20
Chloroethane	91		92		55-138	1		20
Trichlorofluoromethane	100		100		62-150	0		20
1,1-Dichloroethene	94		94		61-145	0		20
Carbon disulfide	96		96		51-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	99		97		70-130	2		20
Methylene chloride	92		89		70-130	3		20
Acetone	140		140		58-148	0		20
trans-1,2-Dichloroethene	94		93		70-130	1		20
Methyl Acetate	110		110		70-130	0		20
Methyl tert butyl ether	97		98		63-130	1		20
1,1-Dichloroethane	99		98		70-130	1		20
cis-1,2-Dichloroethene	93		92		70-130	1		20
Cyclohexane	110		110		70-130	0		20
Bromochloromethane	96		96		70-130	0		20
Chloroform	97		95		70-130	2		20
Carbon tetrachloride	100		100		63-132	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
2-Butanone	120		120		63-138	0		20
Benzene	95		95		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01

Lab Number: L2158070
Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1567476-3 WG1567476-4								
1,2-Dichloroethane	98		99		70-130	1		20
Methyl cyclohexane	98		100		70-130	2		20
Trichloroethene	99		98		70-130	1		20
1,2-Dichloropropane	100		100		70-130	0		20
Bromodichloromethane	92		92		67-130	0		20
cis-1,3-Dichloropropene	92		92		70-130	0		20
Toluene	97		92		70-130	5		20
Tetrachloroethene	96		91		70-130	5		20
4-Methyl-2-pentanone	100		98		59-130	2		20
trans-1,3-Dichloropropene	88		88		70-130	0		20
1,1,2-Trichloroethane	93		89		70-130	4		20
Dibromochloromethane	95		93		63-130	2		20
1,2-Dibromoethane	92		92		70-130	0		20
2-Hexanone	120		110		57-130	9		20
Chlorobenzene	93		93		75-130	0		20
Ethylbenzene	99		97		70-130	2		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
Styrene	100		100		70-130	0		20
Bromoform	96		97		54-136	1		20
Isopropylbenzene	98		94		70-130	4		20
1,2,4-Trimethylbenzene	96		92		70-130	4		20
1,3-Dichlorobenzene	95		94		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.01

Lab Number: L2158070

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1567476-3 WG1567476-4								
1,4-Dichlorobenzene	96		93		70-130	3		20
1,2-Dichlorobenzene	97		92		70-130	5		20
1,2-Dibromo-3-chloropropane	99		94		41-144	5		20
1,2,4-Trichlorobenzene	93		93		70-130	0		20
1,2,3-Trichlorobenzene	94		94		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	95		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.01

Lab Number: L2158070

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG1567480-3 WG1567480-4								
1,4-Dioxane	120		110		70-130	9		25
1,1,2,2-Tetrachloroethane	100		94		70-130	6		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		101		70-130
4-Bromofluorobenzene	99		100		70-130

METALS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-01
Client ID: TW-1
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/22/21 12:50
Date Received: 10/22/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	2.126	J	ug/l	5.000	1.715	5	11/01/21 10:21	11/03/21 17:56	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-02
Client ID: TW-2
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:25
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	9.312		ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 21:31	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-03
Client ID: TW-3
Sample Location: PHILA, PA
Date Collected: 10/22/21 13:35
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.7910	J	ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 21:36	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

SAMPLE RESULTS

Lab ID: L2158070-04
Client ID: TW-5
Sample Location: PHILA, PA
Date Collected: 10/22/21 14:00
Date Received: 10/22/21
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.3553	J	ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 21:42	EPA 3005A	1,6020B	PS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01
Lab Number: L2158070
Report Date: 11/11/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1564301-1										
Lead, Total	ND		ug/l	1.000	0.3430	1	11/01/21 10:21	11/03/21 11:11	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02-04 Batch: WG1564853-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	11/01/21 19:45	11/04/21 19:46	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.01

Lab Number: L2158070

Report Date: 11/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1564301-2								
Lead, Total	102		-		80-120	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 02-04 Batch: WG1564853-2								
Lead, Dissolved	98		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01

Lab Number: L2158070
Report Date: 11/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1564301-3 QC Sample: L2157658-04 Client ID: MS Sample												
Lead, Total	ND	530	510.7	96		-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG1564853-3 QC Sample: L2158069-02 Client ID: MS Sample												
Lead, Dissolved	0.9818J	530	532.8	100		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.01

Lab Number: L2158070

Report Date: 11/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG1564853-4 QC Sample: L2158069-02 Client ID: DUP Sample						
Lead, Dissolved	0.9818J	0.9661J	ug/l	NC		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.01

Lab Number: L2158070
Report Date: 11/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158070-01A	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-01B	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-01C	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-01D	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		PB-6020T-PPB(180)
L2158070-02A	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-02B	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-02C	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-02D	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2158070-03A	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-03B	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-03C	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-03D	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2158070-03E	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		-
L2158070-04A	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-04B	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-04C	Vial HCl preserved	B	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2158070-04D	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2158070-04E	Plastic 250ml HNO3 preserved	B	<2	<2	4.7	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2158070
Project Number:	30108678.01	**Report Date:**	11/11/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2158070
Project Number:	30108678.01	**Report Date:**	11/11/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2158070
Project Number:	30108678.01	**Report Date:**	11/11/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2158070
Project Number:	30108678.01	**Report Date:**	11/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10/23/21

ALPHA Job #: L2158070

Client Information
Client: Arnold
Address: 1 Harvard way Ste 5
Hillsborough, NJ
Phone: 908-526-1185
Fax:
Email: Larry.Bisnat@arnoldusa.com

Project Information
Project Name: Alpine 5th Street
Project Location: Phila, PA
Project #: 3c/08G75,C1
(Use Project name as Project #)
Project Manager: Larry Risnat
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved):
Due Date:
# of Days:

Deliverables
- NJ Full / Reduced
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Billing Information
- Same as Client Info

PO #

Regulatory Requirement
- SRS Residential/Non Residential
- SRS Impact to Groundwater
- NJ Ground Water Quality Standards
- NJ IGW SPLP Leachate Criteria
- Other

Site Information
Is this site impacted by Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
- Category 1
- Category 2

For VOC, selection is REQUIRED:
- 1,4-Dioxane
- 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Sample Filtration
- X Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	Lead	Total Bottle	Sample Specific Comments
58070-01	TW-1	10/22/21	1240	AQ	MJ	X	X	4	
-02	TW-2		1325			X	X	4	
-03	TW-3		1325			X	X	4	
-04	TW-5		1400			X	X	4	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	AV	P
Preservative	P	C

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilinski	10/22/21 1516		10/22/21 1516
	10/22/21 1800		10/22/21 1800
	10/22/21 20:35		10/22/21 2014
			10/23/21 0050
	10/23/21 0305		10/23/21 0305

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTITUTIONS. (See reverse side.)

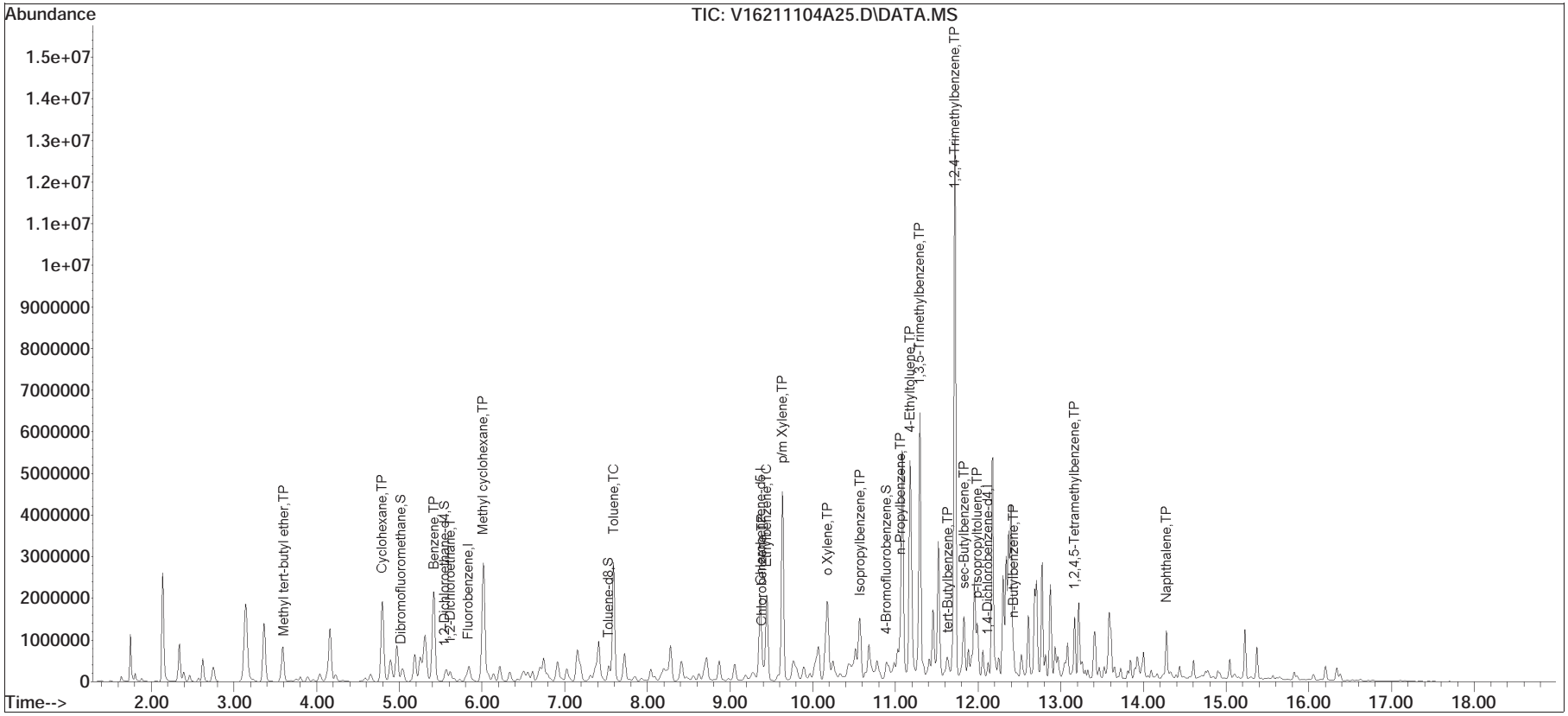
Form No: 01-14 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA116\2021\211104\
Data File : V16211104A25.D
Acq On : 04 Nov 2021 03:08 pm
Operator : VOA116:MM
Sample : L2158070-01,31,10,10,,A
Misc : WG1567476,ICAL18361
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 05 13:19:49 2021
Quant Method : I:\VOLATILES\VOA116\2021\211104\V116_211006_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 09:42:44 2021
Response via : Initial Calibration

Sub List : 8260-SIMFULL - 8260 -Curve minus 1,4-dioxane, iodomethane ,acrolein

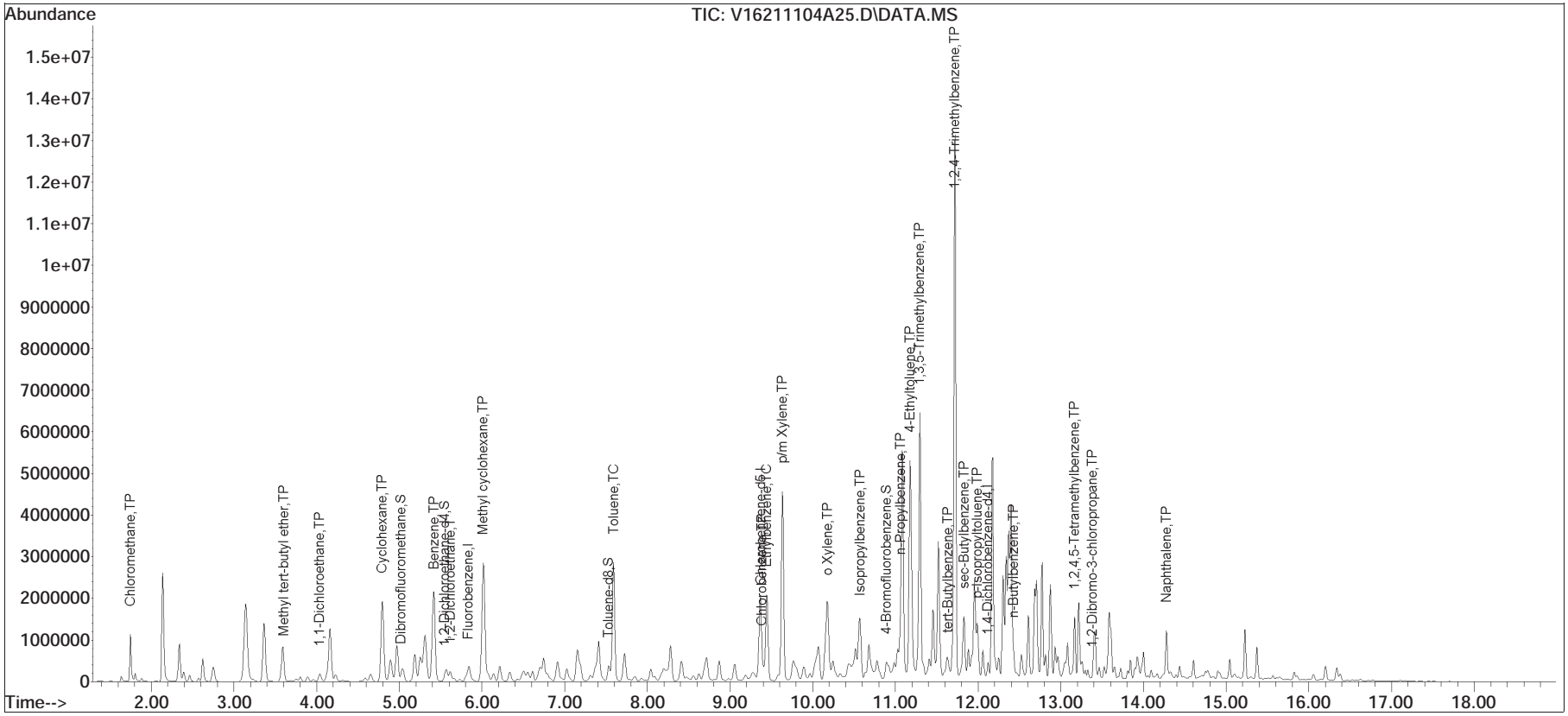


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA116\2021\211104\
Data File : V16211104A25.D
Acq On : 04 Nov 2021 03:08 pm
Operator : VOA116:MM
Sample : L2158070-01,31,10,10,,A
Misc : WG1567476,ICAL18361
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 05 05:07:58 2021
Quant Method : I:\VOLATILES\VOA116\2021\211104\V116_211006_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 06 09:42:44 2021
Response via : Initial Calibration

Sub List : 8260-SIMFULL - 8260 -Curve minus 1,4-dioxane, iodomethane ,acrolein



ANALYTICAL REPORT

Lab Number:	L2260298
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST ST
Project Number:	30108678
Report Date:	11/10/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2260298
Report Date: 11/10/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2260298-01	MW-1	WATER	PHILA, PA	10/27/22 11:40	10/27/22
L2260298-02	MW-2	WATER	PHILA, PA	10/27/22 12:50	10/27/22
L2260298-03	MW-3	WATER	PHILA, PA	10/27/22 10:00	10/27/22
L2260298-04	MW-4	WATER	PHILA, PA	10/27/22 13:10	10/27/22
L2260298-05	MW-5	WATER	PHILA, PA	10/27/22 10:50	10/27/22
L2260298-06	MW-7	WATER	PHILA, PA	10/27/22 14:15	10/27/22
L2260298-07	MW-8	WATER	PHILA, PA	10/27/22 09:50	10/27/22
L2260298-08	MW-9	WATER	PHILA, PA	10/27/22 12:00	10/27/22
L2260298-09	MW-9FF	WATER	PHILA, PA	10/27/22 12:00	10/27/22
L2260298-10	DUP-1	WATER	PHILA, PA	10/27/22 00:00	10/27/22
L2260298-11	FIELD BLANK	WATER	PHILA, PA	10/27/22 13:30	10/27/22
L2260298-12	TRIP BLANK	WATER	PHILA, PA	10/26/22 00:00	10/27/22

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2260298
Project Number:	30108678	**Report Date:**	11/10/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2260298
Project Number:	30108678	**Report Date:**	11/10/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics by SIM

L2260298-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 11/10/22

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-01 D
Client ID: MW-1
Sample Location: PHILA, PA

Date Collected: 10/27/22 11:40
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/07/22 15:14
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	0.49	2
Chloromethane	ND		ug/l	5.0	0.40	2
Vinyl chloride	ND		ug/l	2.0	0.14	2
Bromomethane	ND		ug/l	2.0	0.51	2
Chloroethane	ND		ug/l	2.0	0.27	2
Trichlorofluoromethane	ND		ug/l	5.0	0.32	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
Carbon disulfide	ND		ug/l	10	0.60	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	5.0	0.30	2
Methylene chloride	ND		ug/l	5.0	1.4	2
Acetone	ND		ug/l	10	2.9	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Methyl tert butyl ether	ND		ug/l	2.0	0.33	2
1,1-Dichloroethane	ND		ug/l	1.5	0.42	2
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.37	2
1,2-Dichloroethene, Total	ND		ug/l	1.0	0.33	2
Cyclohexane	9.9	J	ug/l	20	0.54	2
Bromochloromethane	ND		ug/l	5.0	0.30	2
Chloroform	ND		ug/l	1.5	0.44	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,1,1-Trichloroethane	ND		ug/l	1.0	0.32	2
2-Butanone	ND		ug/l	10	3.9	2
Benzene	1.0		ug/l	1.0	0.32	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
Methyl cyclohexane	8.5	J	ug/l	20	0.79	2
Trichloroethene	ND		ug/l	1.0	0.35	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2

Project Name: ALLIANCE 51ST ST
Lab Number: L2260298
Project Number: 30108678
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-01 D
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 10/27/22 11:40
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	1.0	0.38	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
Toluene	1.1	J	ug/l	1.5	0.41	2
Tetrachloroethene	ND		ug/l	1.0	0.36	2
4-Methyl-2-pentanone	ND		ug/l	10	0.83	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
1,3-Dichloropropene, Total	ND		ug/l	1.0	0.29	2
1,1,2-Trichloroethane	ND		ug/l	1.5	0.29	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,2-Dibromoethane	ND		ug/l	4.0	0.39	2
2-Hexanone	ND		ug/l	10	1.0	2
Chlorobenzene	ND		ug/l	1.0	0.36	2
Ethylbenzene	0.35	J	ug/l	1.0	0.33	2
p/m-Xylene	2.8		ug/l	2.0	0.66	2
o-Xylene	0.96	J	ug/l	2.0	0.78	2
Xylenes, Total	3.8	J	ug/l	2.0	0.66	2
Styrene	ND		ug/l	2.0	0.72	2
Bromoform	ND		ug/l	4.0	0.50	2
Isopropylbenzene	1.9		ug/l	1.0	0.37	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	0.43	2
1,2,4-Trimethylbenzene	ND		ug/l	5.0	0.38	2
1,3-Dichlorobenzene	ND		ug/l	5.0	0.37	2
1,4-Dichlorobenzene	ND		ug/l	5.0	0.37	2
1,2-Dichlorobenzene	ND		ug/l	5.0	0.37	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	0.71	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.44	2
Naphthalene	ND		ug/l	2.0	0.43	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	0.47	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	96		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-01 D
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 10/27/22 11:40
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/07/22 15:14
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	6.0	2.1	2
1,1,2,2-Tetrachloroethane	ND		ug/l	0.100	0.011	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
4-Bromofluorobenzene	105		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-02
Client ID: MW-2
Sample Location: PHILA, PA

Date Collected: 10/27/22 12:50
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/07/22 14:33
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	2.6		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	4.1	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	3.8		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	4.1	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-02
Client ID: MW-2
Sample Location: PHILA, PA
Date Collected: 10/27/22 12:50
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.9		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.50		ug/l	0.50	0.17	1
p/m-Xylene	2.5		ug/l	1.0	0.33	1
o-Xylene	5.6		ug/l	1.0	0.39	1
Xylenes, Total	8.1		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.42	J	ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	5.2		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	4.0		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	111		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-02
Client ID: MW-2
Sample Location: PHILA, PA
Date Collected: 10/27/22 12:50
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/07/22 14:33
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
4-Bromofluorobenzene	96		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-03
Client ID: MW-3
Sample Location: PHILA, PA

Date Collected: 10/27/22 10:00
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/08/22 10:42
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	2.8	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 10/27/22 10:00
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	113		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 10/27/22 10:00
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/08/22 10:42
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
4-Bromofluorobenzene	96		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-04
Client ID: MW-4
Sample Location: PHILA, PA

Date Collected: 10/27/22 13:10
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/08/22 11:09
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	8.8		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 10/27/22 13:10
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	115		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 10/27/22 13:10
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/08/22 11:09
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
4-Bromofluorobenzene	95		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-05
Client ID: MW-5
Sample Location: PHILA, PA

Date Collected: 10/27/22 10:50
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/08/22 11:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 10/27/22 10:50
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	118		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 10/27/22 10:50
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/08/22 11:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	93		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-06
Client ID: MW-7
Sample Location: PHILA, PA

Date Collected: 10/27/22 14:15
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/08/22 12:03
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	0.12	J	ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	0.59	J	ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	1.0		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	8.9	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	2.6	J	ug/l	5.0	1.9	1
Benzene	74		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.79		ug/l	0.50	0.13	1
Methyl cyclohexane	8.1	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-06
Client ID: MW-7
Sample Location: PHILA, PA
Date Collected: 10/27/22 14:15
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	12		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	6.3		ug/l	0.50	0.17	1
p/m-Xylene	14		ug/l	1.0	0.33	1
o-Xylene	5.5		ug/l	1.0	0.39	1
Xylenes, Total	20		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	2.0		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	5.9		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	15		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	5.8		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	115		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-06
Client ID: MW-7
Sample Location: PHILA, PA
Date Collected: 10/27/22 14:15
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/08/22 12:03
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
4-Bromofluorobenzene	101		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-07
Client ID: MW-8
Sample Location: PHILA, PA

Date Collected: 10/27/22 09:50
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/08/22 12:56
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	8.7	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	12		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-07
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 10/27/22 09:50
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.21	J	ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	0.21	J	ug/l	0.50	0.18	1
Ethylbenzene	0.22	J	ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	21		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	0.23	J	ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.54	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	0.28	J	ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.76	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	0.76	J	ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-07
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 10/27/22 09:50
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/08/22 12:56
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
4-Bromofluorobenzene	107		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-08
Client ID: MW-9
Sample Location: PHILA, PA

Date Collected: 10/27/22 12:00
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/08/22 12:29
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	100		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	14		ug/l	5.0	1.9	1
Benzene	1.4		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	3.7	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-08
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 10/27/22 12:00
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	15		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	1.2	J	ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	2.0	J	ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	15		ug/l	0.50	0.17	1
p/m-Xylene	98		ug/l	1.0	0.33	1
o-Xylene	77		ug/l	1.0	0.39	1
Xylenes, Total	180		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	7.2		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	52		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	140		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	99		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	73		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-08
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 10/27/22 12:00
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/08/22 12:29
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
4-Bromofluorobenzene	101		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-10
Client ID: DUP-1
Sample Location: PHILA, PA

Date Collected: 10/27/22 00:00
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/08/22 10:16
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-10
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 10/27/22 00:00
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	128		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-10
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 10/27/22 00:00
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/08/22 10:16
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
4-Bromofluorobenzene	102		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-11
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 10/27/22 13:30
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/08/22 09:49
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-11
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 10/27/22 13:30
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	115		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-11
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 10/27/22 13:30
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/08/22 09:49
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
4-Bromofluorobenzene	95		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-12
Client ID: TRIP BLANK
Sample Location: PHILA, PA

Date Collected: 10/26/22 00:00
Date Received: 10/27/22
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/08/22 09:22
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Lab Number: L2260298
Project Number: 30108678
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-12
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 10/26/22 00:00
Date Received: 10/27/22
Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	80		70-130
Dibromofluoromethane	111		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-12
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 10/26/22 00:00
Date Received: 10/27/22
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/08/22 09:22
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
4-Bromofluorobenzene	87		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/07/22 07:46
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1709421-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/07/22 07:46
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1709421-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/07/22 07:46
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1709421-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	120		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/07/22 09:07
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG1709425-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
4-Bromofluorobenzene	97		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 11/08/22 08:55
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 03-08,10-12 Batch: WG1709929-5					
1,4-Dioxane	1.3	J	ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
4-Bromofluorobenzene	98		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/08/22 08:55
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-08,10-12 Batch: WG1709939-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/08/22 08:55
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-08,10-12 Batch: WG1709939-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/08/22 08:55
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-08,10-12 Batch: WG1709939-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	114		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2260298
Report Date: 11/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1709421-3 WG1709421-4								
Dichlorodifluoromethane	98		100		36-147	2		20
Chloromethane	92		93		64-130	1		20
Vinyl chloride	110		110		55-140	0		20
Bromomethane	84		100		39-139	17		20
Chloroethane	120		120		55-138	0		20
Trichlorofluoromethane	120		120		62-150	0		20
1,1-Dichloroethene	120		120		61-145	0		20
Carbon disulfide	120		120		51-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	120		120		70-130	0		20
Methylene chloride	110		110		70-130	0		20
Acetone	92		73		58-148	**23**	Q	20
trans-1,2-Dichloroethene	120		120		70-130	0		20
Methyl Acetate	93		81		70-130	14		20
Methyl tert butyl ether	99		94		63-130	5		20
1,1-Dichloroethane	110		110		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Cyclohexane	120		110		70-130	9		20
Bromochloromethane	110		110		70-130	0		20
Chloroform	110		120		70-130	9		20
Carbon tetrachloride	120		120		63-132	0		20
1,1,1-Trichloroethane	120		120		67-130	0		20
2-Butanone	83		67		63-138	**21**	Q	20
Benzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2260298

Report Date: 11/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1709421-3 WG1709421-4								
1,2-Dichloroethane	110		100		70-130	10		20
Methyl cyclohexane	120		120		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Bromodichloromethane	110		110		67-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Toluene	100		110		70-130	10		20
Tetrachloroethene	110		120		70-130	9		20
4-Methyl-2-pentanone	76		67		59-130	13		20
trans-1,3-Dichloropropene	96		92		70-130	4		20
1,1,2-Trichloroethane	92		88		70-130	4		20
Dibromochloromethane	96		94		63-130	2		20
1,2-Dibromoethane	92		85		70-130	8		20
2-Hexanone	72		66		57-130	9		20
Chlorobenzene	100		100		75-130	0		20
Ethylbenzene	100		110		70-130	10		20
p/m-Xylene	110		115		70-130	4		20
o-Xylene	110		110		70-130	0		20
Styrene	110		110		70-130	0		20
Bromoform	92		85		54-136	8		20
Isopropylbenzene	98		100		70-130	2		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2260298

Report Date: 11/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1709421-3 WG1709421-4								
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	84		74		41-144	13		20
1,2,4-Trichlorobenzene	110		110		70-130	0		20
Naphthalene	89		82		70-130	8		20
1,2,3-Trichlorobenzene	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		98		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	112		107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2260298

Report Date: 11/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG1709425-3 WG1709425-4								
1,4-Dioxane	87		120		70-130	**32**	Q	25
1,1,2,2-Tetrachloroethane	80		92		70-130	14		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		114		70-130
4-Bromofluorobenzene	102		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2260298

Report Date: 11/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 03-08,10-12 Batch: WG1709929-3 WG1709929-4								
1,4-Dioxane	86		95		70-130	10		25
1,1,2,2-Tetrachloroethane	70		74		70-130	6		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		109		70-130
4-Bromofluorobenzene	96		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2260298

Report Date: 11/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08,10-12 Batch: WG1709939-3 WG1709939-4								
Dichlorodifluoromethane	98		90		36-147	9		20
Chloromethane	90		80		64-130	12		20
Vinyl chloride	100		100		55-140	0		20
Bromomethane	91		90		39-139	1		20
Chloroethane	100		100		55-138	0		20
Trichlorofluoromethane	120		120		62-150	0		20
1,1-Dichloroethene	120		110		61-145	9		20
Carbon disulfide	110		110		51-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	120		110		70-130	9		20
Methylene chloride	110		100		70-130	10		20
Acetone	110		110		58-148	0		20
trans-1,2-Dichloroethene	120		110		70-130	9		20
Methyl Acetate	100		95		70-130	5		20
Methyl tert butyl ether	110		100		63-130	10		20
1,1-Dichloroethane	110		100		70-130	10		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Cyclohexane	110		110		70-130	0		20
Bromochloromethane	120		110		70-130	9		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	130		120		63-132	8		20
1,1,1-Trichloroethane	120		120		67-130	0		20
2-Butanone	95		94		63-138	1		20
Benzene	110		100		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2260298

Report Date: 11/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08,10-12 Batch: WG1709939-3 WG1709939-4								
1,2-Dichloroethane	100		110		70-130	10		20
Methyl cyclohexane	110		110		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichloropropane	88		81		70-130	8		20
Bromodichloromethane	97		93		67-130	4		20
cis-1,3-Dichloropropene	97		91		70-130	6		20
Toluene	100		99		70-130	1		20
Tetrachloroethene	130		120		70-130	8		20
4-Methyl-2-pentanone	90		80		59-130	12		20
trans-1,3-Dichloropropene	110		96		70-130	14		20
1,1,2-Trichloroethane	100		86		70-130	15		20
Dibromochloromethane	110		99		63-130	11		20
1,2-Dibromoethane	100		93		70-130	7		20
2-Hexanone	72		78		57-130	8		20
Chlorobenzene	100		99		75-130	1		20
Ethylbenzene	100		100		70-130	0		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	110		105		70-130	5		20
Styrene	115		105		70-130	9		20
Bromoform	100		91		54-136	9		20
Isopropylbenzene	100		92		70-130	8		20
1,3,5-Trimethylbenzene	110		98		64-130	12		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08,10-12 Batch: WG1709939-3 WG1709939-4								
1,3-Dichlorobenzene	110		98		70-130	12		20
1,4-Dichlorobenzene	100		97		70-130	3		20
1,2-Dichlorobenzene	100		95		70-130	5		20
1,2-Dibromo-3-chloropropane	97		100		41-144	3		20
1,2,4-Trichlorobenzene	120		110		70-130	9		20
Naphthalene	100		93		70-130	7		20
1,2,3-Trichlorobenzene	120		100		70-130	18		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		103		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	94		90		70-130
Dibromofluoromethane	108		111		70-130

METALS

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-01
Client ID: MW-1
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/27/22 11:40
Date Received: 10/27/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	1.267		ug/l	1.000	0.3430	1	11/02/22 11:06	11/09/22 19:42	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-02
Client ID: MW-2
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/27/22 12:50
Date Received: 10/27/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	1.907		ug/l	1.000	0.3430	1	11/02/22 11:06	11/09/22 19:47	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-03
Client ID: MW-3
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/27/22 10:00
Date Received: 10/27/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	11/02/22 11:06	11/09/22 19:53	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Lab Number: L2260298
Project Number: 30108678
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 10/27/22 13:10
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.8315	J	ug/l	1.000	0.3430	1	11/02/22 11:06	11/09/22 19:58	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Lab Number: L2260298
Project Number: 30108678
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 10/27/22 10:50
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	11/02/22 11:06	11/09/22 20:03	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-06
Client ID: MW-7
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/27/22 14:15
Date Received: 10/27/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	1.429		ug/l	1.000	0.3430	1	11/02/22 11:06	11/09/22 20:53	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Lab Number: L2260298
Project Number: 30108678
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-07
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 10/27/22 09:50
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	11/02/22 11:06	11/09/22 20:58	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-08
Client ID: MW-9
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/27/22 12:00
Date Received: 10/27/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	42.16		ug/l	1.000	0.3430	1	11/02/22 11:06	11/09/22 21:04	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-09
Client ID: MW-9FF
Sample Location: PHILA, PA
Date Collected: 10/27/22 12:00
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	28.47		ug/l	1.000	0.3430	1	11/02/22 11:06	11/09/22 21:09	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-10
Client ID: DUP-1
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/27/22 00:00
Date Received: 10/27/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	11/02/22 11:06	11/09/22 21:14	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Lab Number: L2260298
Project Number: 30108678
Report Date: 11/10/22

SAMPLE RESULTS

Lab ID: L2260298-11
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 10/27/22 13:30
Date Received: 10/27/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	11/02/22 11:06	11/09/22 20:26	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2260298
Report Date: 11/10/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1706339-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	11/02/22 11:06	11/09/22 18:15	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2260298

Report Date: 11/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1706339-2								
Lead, Dissolved	103		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2260298
Report Date: 11/10/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1706339-3 WG1706339-4 QC Sample: L2260291-05 Client ID: MS Sample												
Lead, Dissolved	ND	530	541.6	102		559.0	105		75-125	3		20

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2260298
Report Date: 11/10/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2260298-01A	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-01B	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-01C	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-01D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		PB-6020S-PPB(180)
L2260298-02A	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-02B	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-02C	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-02D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		PB-6020S-PPB(180)
L2260298-03A	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-03B	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-03C	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-03D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		PB-6020S-PPB(180)
L2260298-04A	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-04B	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-04C	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-04D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		PB-6020S-PPB(180)
L2260298-05A	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-05B	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-05C	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-05D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		PB-6020S-PPB(180)
L2260298-06A	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-06B	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-06C	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2260298
Report Date: 11/10/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2260298-06D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		PB-6020S-PPB(180)
L2260298-07A	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-07B	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-07C	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-07D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		PB-6020S-PPB(180)
L2260298-08A	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-08B	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-08C	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-08D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		PB-6020S-PPB(180)
L2260298-09D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		PB-6020S-PPB(180)
L2260298-10A	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-10B	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-10C	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-10D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		PB-6020S-PPB(180)
L2260298-11A	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-11B	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-11C	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-11D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		PB-6020S-PPB(180)
L2260298-12A	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2260298-12B	Vial HCl preserved	A	NA		4.5	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2260298
Project Number:	30108678	**Report Date:**	11/10/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2260298
Project Number:	30108678	**Report Date:**	11/10/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 10/28/22

ALPHA Job #: L2260298

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Arcadis
Address: 1 Harmon Way Ste 5
Hatfield MA 01038
Phone: 908-526-1000
Fax:
Email: Larry.Grant@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Allegiance 5151 5th
Project Location: Phila, PA
Project #: 30108678
Project Manager: Larry Grant
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:
Include Naph, 1,2,4TMB, 1,3,5-TMB

SAMPLE HANDLING
Filtration
☒ Done for lead
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 1,1C	Dissolved Lead	Sample Specific Comments	TOTAL # BOTTLES
L60298-01	MW-1	10/27/22	1140	AQ	MH	X	X		4
-02	MW-2		1250			X	X		4
-03	MW-3		1060			X	X		4
-04	MW-4		1310			X	X		4
-05	MW-5		1050			X	X		4
-06	MW-7		~~1150~~	1415		X	X		4
-07	MW-8		950			X	X		4
-08	MW-9		1200			X	X		4
-09	~~MW-9FF~~ MW-9FR		1250				X		1
-10	DUP-1		V			X	X		4

Container Type	A,V	P
Preservative	R	C

Relinquished By:	Date/Time	Received By:	Date/Time
Madelyn Hanke / Madelyn Hanke / AUS	10/27/2022 15:05	O. Burgos AAL	10.27.22 1505
O'Burgos	10.27.22		10.27.22 2100
	10.28.22	EK AAL	10/27/22 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/28/22

ALPHA Job #: L2260298

Client Information

Client: Arcadis

Address: 1 Harvard Way Ste 5
Williamsburg NY

Phone: 908-526-1010

Fax:

Email: Larry.Blunt@arcadis.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance Pipeline

Project Location: Philly PA

Project #: 30086578

Project Manager: Larry Blunt

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: VOC +10 Preserved Only

SAMPLE HANDLING

Filtration
☒ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
60298-11	Field Blank	10/27/22	1320	AQ	MH		4
-12	Trip Blank	10/26/22	—	AQ	MH		2

Container Type	AV	AV
Preservative	HCl	HCl

Relinquished By:	Date/Time	Received By:	Date/Time
Madelyn Hanke/Brandon Kent/FedEx	10/27/2022 15:05	C.B.	AAL 10.27.22 1505
C.T.	10.27.22		10.27.22 2140
	10.28.22		10/27/22 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L2216990
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST ST
Project Number:	30108678.03B
Report Date:	04/22/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2216990
Report Date: 04/22/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2216990-01	MW-1	WATER	PHILA, PA	04/01/22 12:55	04/01/22
L2216990-02	MW-2	WATER	PHILA, PA	04/01/22 14:35	04/01/22
L2216990-03	MW-3	WATER	PHILA, PA	04/01/22 13:00	04/01/22
L2216990-04	MW-4	WATER	PHILA, PA	04/01/22 11:35	04/01/22
L2216990-05	MW-5	WATER	PHILA, PA	04/01/22 10:30	04/01/22
L2216990-06	MW-7	WATER	PHILA, PA	04/01/22 14:00	04/01/22
L2216990-07	MW-8	WATER	PHILA, PA	04/01/22 11:40	04/01/22
L2216990-08	MW-9	WATER	PHILA, PA	04/01/22 10:30	04/01/22
L2216990-09	DUP-1	WATER	PHILA, PA	04/01/22 00:00	04/01/22
L2216990-10	FIELD BLANK	WATER	PHILA, PA	04/01/22 14:30	04/01/22
L2216990-11	TRIP BLANK	WATER	PHILA, PA	04/01/22 00:00	04/01/22

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2216990
Project Number:	30108678.03B	**Report Date:**	04/22/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2216990
Project Number:	30108678.03B	**Report Date:**	04/22/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2216990-04 and -08: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

L2216990-08: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (37%), possibly due to the matrix effect caused by the high pH of the sample (>10).

Volatile Organics by SIM

L2216990-04 and -08: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 04/22/22

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-01
Client ID: MW-1
Sample Location: PHILA, PA

Date Collected: 04/01/22 12:55
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/13/22 15:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	9.5	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.98		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-01
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 04/01/22 12:55
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.78		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	1.9		ug/l	1.0	0.33	1
o-Xylene	0.65	J	ug/l	1.0	0.39	1
Xylenes, Total	2.6	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	2.2		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	82		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-01
Client ID: MW-1
Sample Location: PHILA, PA

Date Collected: 04/01/22 12:55
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/13/22 15:03
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
4-Bromofluorobenzene	107		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-02
Client ID: MW-2
Sample Location: PHILA, PA

Date Collected: 04/01/22 14:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 12:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	0.36	J	ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	4.6	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	2.4		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	3.6	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	3.3		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	2.7	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-02
Client ID: MW-2
Sample Location: PHILA, PA
Date Collected: 04/01/22 14:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.6		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.37	J	ug/l	0.50	0.17	1
p/m-Xylene	1.9		ug/l	1.0	0.33	1
o-Xylene	4.1		ug/l	1.0	0.39	1
Xylenes, Total	6.0		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.38	J	ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	4.0		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	3.3		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	6.6		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-02
Client ID: MW-2
Sample Location: PHILA, PA

Date Collected: 04/01/22 14:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 12:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
4-Bromofluorobenzene	100		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-03
Client ID: MW-3
Sample Location: PHILA, PA

Date Collected: 04/01/22 13:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 12:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	5.7		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 04/01/22 13:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-03
Client ID: MW-3
Sample Location: PHILA, PA

Date Collected: 04/01/22 13:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 12:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
4-Bromofluorobenzene	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-04
Client ID: MW-4
Sample Location: PHILA, PA

Date Collected: 04/01/22 11:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 13:04
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	12		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 04/01/22 11:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	110		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-04
Client ID: MW-4
Sample Location: PHILA, PA

Date Collected: 04/01/22 11:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 13:04
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
4-Bromofluorobenzene	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-05
Client ID: MW-5
Sample Location: PHILA, PA

Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 13:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-05
Client ID: MW-5
Sample Location: PHILA, PA

Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 13:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
4-Bromofluorobenzene	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-06
Client ID: MW-7
Sample Location: PHILA, PA

Date Collected: 04/01/22 14:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 13:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	0.64	J	ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.83	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	7.7	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	53		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.66		ug/l	0.50	0.13	1
Methyl cyclohexane	8.2	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-06
Client ID: MW-7
Sample Location: PHILA, PA
Date Collected: 04/01/22 14:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	7.0		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	7.0		ug/l	0.50	0.17	1
p/m-Xylene	8.5		ug/l	1.0	0.33	1
o-Xylene	3.8		ug/l	1.0	0.39	1
Xylenes, Total	12		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	2.3		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	13		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	33		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	7.5		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-06
Client ID: MW-7
Sample Location: PHILA, PA

Date Collected: 04/01/22 14:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 13:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
4-Bromofluorobenzene	111		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-07
Client ID: MW-8
Sample Location: PHILA, PA

Date Collected: 04/01/22 11:40
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 14:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	5.8	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	5.2	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-07
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 04/01/22 11:40
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	0.22	J	ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	3.0		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.25	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	0.36	J	ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	93		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-07
Client ID: MW-8
Sample Location: PHILA, PA

Date Collected: 04/01/22 11:40
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 14:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
4-Bromofluorobenzene	114		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-08
Client ID: MW-9
Sample Location: PHILA, PA

Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 14:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	110		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	0.34	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	22		ug/l	5.0	1.9	1
Benzene	1.3		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	3.6	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-08
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	14		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	3.7	J	ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	17		ug/l	0.50	0.17	1
p/m-Xylene	110		ug/l	1.0	0.33	1
o-Xylene	81		ug/l	1.0	0.39	1
Xylenes, Total	190		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	8.8		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	60		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	180		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	150		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	**37**	Q	70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-08
Client ID: MW-9
Sample Location: PHILA, PA

Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 14:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	108		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-09
Client ID: DUP-1
Sample Location: PHILA, PA

Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 15:05
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	0.59	J	ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.87	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	8.2	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	50		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.58		ug/l	0.50	0.13	1
Methyl cyclohexane	8.4	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	7.2		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	7.2		ug/l	0.50	0.17	1
p/m-Xylene	8.9		ug/l	1.0	0.33	1
o-Xylene	4.0		ug/l	1.0	0.39	1
Xylenes, Total	13		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	2.7		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	14		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	34		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	8.8		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	91		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-09
Client ID: DUP-1
Sample Location: PHILA, PA

Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 15:05
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
4-Bromofluorobenzene	121		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 04/01/22 14:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 15:29
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 04/01/22 14:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	123		70-130
Dibromofluoromethane	96		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 04/01/22 14:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 15:29
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
4-Bromofluorobenzene	117		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-11
Client ID: TRIP BLANK
Sample Location: PHILA, PA

Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/22 09:25
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-11
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	108		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-11
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 09:25
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
4-Bromofluorobenzene	110		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/12/22 08:37
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02-11 Batch: WG1626541-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
4-Bromofluorobenzene	111		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/22 08:37
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-11 Batch: WG1626543-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/22 08:37
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-11 Batch: WG1626543-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/22 08:37
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-11 Batch: WG1626543-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	107		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 04/13/22 12:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1627006-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
4-Bromofluorobenzene	99		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/13/22 05:24
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1627030-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/13/22 05:24
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1627030-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/13/22 05:24
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1627030-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02-11 Batch: WG1626541-3 WG1626541-4								
1,4-Dioxane	130		130		70-130	0		25
1,1,2,2-Tetrachloroethane	104		108		70-130	4		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		108		70-130
4-Bromofluorobenzene	108		109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-11 Batch: WG1626543-3 WG1626543-4								
Dichlorodifluoromethane	120		120		36-147	0		20
Chloromethane	**150**	Q	**150**	Q	64-130	0		20
Vinyl chloride	110		120		55-140	9		20
Bromomethane	67		77		39-139	14		20
Chloroethane	100		100		55-138	0		20
Trichlorofluoromethane	93		92		62-150	1		20
1,1-Dichloroethene	99		100		61-145	1		20
Carbon disulfide	110		110		51-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		100		70-130	0		20
Methylene chloride	100		100		70-130	0		20
Acetone	120		120		58-148	0		20
trans-1,2-Dichloroethene	99		99		70-130	0		20
Methyl Acetate	**140**	Q	**140**	Q	70-130	0		20
Methyl tert butyl ether	87		90		63-130	3		20
1,1-Dichloroethane	110		110		70-130	0		20
cis-1,2-Dichloroethene	98		100		70-130	2		20
Cyclohexane	130		130		70-130	0		20
Bromochloromethane	100		100		70-130	0		20
Chloroform	99		98		70-130	1		20
Carbon tetrachloride	94		93		63-132	1		20
1,1,1-Trichloroethane	93		92		67-130	1		20
2-Butanone	130		130		63-138	0		20
Benzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-11 Batch: WG1626543-3 WG1626543-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Bromodichloromethane	93		91		67-130	2		20
cis-1,3-Dichloropropene	94		95		70-130	1		20
Toluene	100		100		70-130	0		20
Tetrachloroethene	95		92		70-130	3		20
4-Methyl-2-pentanone	120		130		59-130	8		20
trans-1,3-Dichloropropene	99		99		70-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Dibromochloromethane	100		98		63-130	2		20
1,2-Dibromoethane	100		100		70-130	0		20
2-Hexanone	130		130		57-130	0		20
Chlorobenzene	100		100		75-130	0		20
Ethylbenzene	100		100		70-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
Styrene	105		105		70-130	0		20
Bromoform	90		89		54-136	1		20
Isopropylbenzene	100		110		70-130	10		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-11 Batch: WG1626543-3 WG1626543-4								
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	100		98		41-144	2		20
1,2,4-Trichlorobenzene	83		86		70-130	4		20
Naphthalene	89		92		70-130	3		20
1,2,3-Trichlorobenzene	88		89		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		94		70-130
Toluene-d8	107		110		70-130
4-Bromofluorobenzene	102		107		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1627006-3 WG1627006-4								
1,4-Dioxane	80		78		70-130	3		25
1,1,2,2-Tetrachloroethane	103		111		70-130	7		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		113		70-130
4-Bromofluorobenzene	96		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1627030-3 WG1627030-4								
Dichlorodifluoromethane	100		100		36-147	0		20
Chloromethane	100		110		64-130	10		20
Vinyl chloride	99		100		55-140	1		20
Bromomethane	96		96		39-139	0		20
Chloroethane	96		110		55-138	14		20
Trichlorofluoromethane	110		110		62-150	0		20
1,1-Dichloroethene	100		110		61-145	10		20
Carbon disulfide	98		100		51-130	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		70-130	0		20
Methylene chloride	98		100		70-130	2		20
Acetone	110		110		58-148	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Methyl Acetate	92		95		70-130	3		20
Methyl tert butyl ether	96		99		63-130	3		20
1,1-Dichloroethane	99		100		70-130	1		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Cyclohexane	99		100		70-130	1		20
Bromochloromethane	110		100		70-130	10		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,1,1-Trichloroethane	100		110		67-130	10		20
2-Butanone	89		86		63-138	3		20
Benzene	100		98		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2216990
Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1627030-3 WG1627030-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichloropropane	97		100		70-130	3		20
Bromodichloromethane	98		100		67-130	2		20
cis-1,3-Dichloropropene	99		98		70-130	1		20
Toluene	98		94		70-130	4		20
Tetrachloroethene	110		100		70-130	10		20
4-Methyl-2-pentanone	87		92		59-130	6		20
trans-1,3-Dichloropropene	98		95		70-130	3		20
1,1,2-Trichloroethane	96		96		70-130	0		20
Dibromochloromethane	98		95		63-130	3		20
1,2-Dibromoethane	96		94		70-130	2		20
2-Hexanone	87		91		57-130	4		20
Chlorobenzene	100		96		75-130	4		20
Ethylbenzene	98		97		70-130	1		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	100		95		70-130	5		20
Styrene	100		100		70-130	0		20
Bromoform	95		96		54-136	1		20
Isopropylbenzene	93		94		70-130	1		20
1,3,5-Trimethylbenzene	95		95		64-130	0		20
1,2,4-Trimethylbenzene	96		96		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1627030-3 WG1627030-4								
1,3-Dichlorobenzene	98		96		70-130	2		20
1,4-Dichlorobenzene	99		96		70-130	3		20
1,2-Dichlorobenzene	97		96		70-130	1		20
1,2-Dibromo-3-chloropropane	91		94		41-144	3		20
1,2,4-Trichlorobenzene	100		98		70-130	2		20
Naphthalene	98		93		70-130	5		20
1,2,3-Trichlorobenzene	100		97		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		105		70-130
Toluene-d8	97		99		70-130
4-Bromofluorobenzene	90		95		70-130
Dibromofluoromethane	102		106		70-130

METALS

Project Name: ALLIANCE 51ST ST
Lab Number: L2216990
Project Number: 30108678.03B
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-01
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 04/01/22 12:55
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:00	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Lab Number: L2216990
Project Number: 30108678.03B
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-02
Client ID: MW-2
Sample Location: PHILA, PA
Date Collected: 04/01/22 14:35
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:04	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Lab Number: L2216990
Project Number: 30108678.03B
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 04/01/22 13:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:09	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-04
Client ID: MW-4
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 11:35
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.5101	J	ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:14	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Lab Number: L2216990
Project Number: 30108678.03B
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:19	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-06
Client ID: MW-7
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 14:00
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	1.786		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:24	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-07
Client ID: MW-8
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 11:40
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:29	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-08
Client ID: MW-9
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 10:30
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	65.15		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:33	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Lab Number: L2216990
Project Number: 30108678.03B
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 04/01/22 00:00
Date Received: 04/01/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	2.161		ug/l	1.000	0.3430	1	04/11/22 17:55	04/18/22 00:38	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2216990-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/01/22 14:30
Date Received: 04/01/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/17/22 23:55	EPA 3005A	1,6020B	WP

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2216990
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1625216-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	04/11/22 17:55	04/17/22 22:57	1,6020B	WP

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2216990

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1625216-2								
Lead, Dissolved	104		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2216990
Report Date: 04/22/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1625216-3 WG1625216-4 QC Sample: L2216191-08 Client ID: MS Sample												
Lead, Dissolved	ND	530	529.2	100		532.1	100		75-125	1		20

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2216990
Report Date: 04/22/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2216990-01A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-01B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-01C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-01D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-02A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-02B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-02C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-02D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-03A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-03B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-03C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-03D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-04A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-04B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-04C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-04D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-05A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-05B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-05C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-05D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-06A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-06B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-06C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2216990
Report Date: 04/22/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2216990-06D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-07A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-07B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-07C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-07D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-08A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-08B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-08C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-08D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-09A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-09B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-09C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-09D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-10A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-10B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-10C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-10D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2216990-11A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2216990-11B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2216990
Project Number:	30108678.03B	**Report Date:**	04/22/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2216990
Project Number:	30108678.03B	**Report Date:**	04/22/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2216990
Project Number:	30108678.03B	**Report Date:**	04/22/22

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2216990
Project Number:	30108678.03B	**Report Date:**	04/22/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 04/02/22

ALPHA Job #: L2216990

Client Information

Client: Arcadis
Address: 1 Lanark Way Ste 5
Hillsborough NJ
Phone: 908-526-1000
Fax: Matt.hilinski@arcadis.com
Email: Larry.Grant@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Allisure 91st St
Project Location: Phila, Pa
Project #: 30086713.03B
Project Manager: Larry Grant
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:
Dissolved Lead is Field Filtered
Include 1,2,4 TMB with VOC results

ANALYSIS: VOC+10 w/ 1,2,4 TMB; Dissolved Lead

SAMPLE HANDLING
Filtration
☑ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC+10 w/ 1,2,4 TMB	Dissolved Lead	Sample Specific Comments	TOTAL # BOTTLES
16990-01	MW-1	4/1/22	1291	AQ	MH	X	X	Lead field filtered	4
-02	MW-2		1435			X	X		
-03	MW-3		1300			X	X		
-04	MW-4		1134			X	X		
-05	MW-5		1030			X	X		
-06	MW-7		1400			X	X		
-07	MW-8		1140			X	X		
-08	MW-9		1030			X	X		
-09	DUP-1		X			X	X		
-10	Field Blank		1470			X	X		
-11	Trip Blank					VOC+1			

Container Type	A	P
Preservative	B	C

4/2/22 0225

Relinquished By:	Date/Time	Received By:	Date/Time
MATT HILINSKI	4/1/22 1911	Omar Gosh	4/1/22 15:25
Omar Gosh	4/1/22 1300		4/1/22 1800
Matthew Tucker	4/1/22 2100	Matthew Tucker	4/2/22 0020

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L2236752
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST ST
Project Number:	30108678.03B
Report Date:	07/25/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2236752
Report Date: 07/25/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2236752-01	MW-1	WATER	PHILA, PA	07/11/22 11:00	07/11/22
L2236752-02	MW-2	WATER	PHILA, PA	07/11/22 12:10	07/11/22
L2236752-03	MW-3	WATER	PHILA, PA	07/11/22 09:40	07/11/22
L2236752-04	MW-4	WATER	PHILA, PA	07/11/22 12:45	07/11/22
L2236752-05	MW-5	WATER	PHILA, PA	07/11/22 10:15	07/11/22
L2236752-06	MW-7	WATER	PHILA, PA	07/11/22 13:30	07/11/22
L2236752-07	MW-8	WATER	PHILA, PA	07/11/22 09:15	07/11/22
L2236752-08	MW-9	WATER	PHILA, PA	07/11/22 11:45	07/11/22
L2236752-09	DUP-1	WATER	PHILA, PA	07/11/22 00:00	07/11/22
L2236752-10	FIELD BLANK	WATER	PHILA, PA	07/11/22 13:00	07/11/22
L2236752-11	TRIP BLANK	WATER	PHILA, PA	07/11/22 00:00	07/11/22

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2236752
Project Number:	30108678.03B	**Report Date:**	07/25/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2236752
Project Number:	30108678.03B	**Report Date:**	07/25/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2236752-04 and -08: The pH was greater than two; however, the sample was analyzed within the method required holding time.

L2236752-06D: The sample has elevated detection limits due to the dilution required by the sample matrix (foam).

L2236752-07D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Volatile Organics by SIM

L2236752-04 and -08: The pH was greater than two; however, the sample was analyzed within the method required holding time.

L2236752-06D: The sample has elevated detection limits due to the dilution required by the sample matrix (foam).

L2236752-07D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 07/25/22

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-01
Client ID: MW-1
Sample Location: PHILA, PA

Date Collected: 07/11/22 11:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 11:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	8.2	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.68		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	8.4	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-01
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 07/11/22 11:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.60	J	ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	1.7		ug/l	1.0	0.33	1
o-Xylene	0.48	J	ug/l	1.0	0.39	1
Xylenes, Total	2.2	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	1.8		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.52	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	1.1		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	77		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	80		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-01
Client ID: MW-1
Sample Location: PHILA, PA

Date Collected: 07/11/22 11:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 11:52
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	70		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-02
Client ID: MW-2
Sample Location: PHILA, PA

Date Collected: 07/11/22 12:10
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 12:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	0.45	J	ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	3.1	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	2.1		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	2.8	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	2.3	J	ug/l	5.0	1.9	1
Benzene	3.2		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	3.1	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-02
Client ID: MW-2
Sample Location: PHILA, PA
Date Collected: 07/11/22 12:10
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.6		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.41	J	ug/l	0.50	0.17	1
p/m-Xylene	2.1		ug/l	1.0	0.33	1
o-Xylene	4.5		ug/l	1.0	0.39	1
Xylenes, Total	6.6		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.38	J	ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	3.7		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	3.1		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	6.8		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-02
Client ID: MW-2
Sample Location: PHILA, PA

Date Collected: 07/11/22 12:10
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 12:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
4-Bromofluorobenzene	84		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-03
Client ID: MW-3
Sample Location: PHILA, PA

Date Collected: 07/11/22 09:40
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 12:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	3.4	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 07/11/22 09:40
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.34	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 07/11/22 09:40
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 12:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-04
Client ID: MW-4
Sample Location: PHILA, PA

Date Collected: 07/11/22 12:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 13:05
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	8.4		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 07/11/22 12:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.37	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	0.30	J	ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-04
Client ID: MW-4
Sample Location: PHILA, PA

Date Collected: 07/11/22 12:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 13:05
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-05
Client ID: MW-5
Sample Location: PHILA, PA

Date Collected: 07/11/22 10:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 13:29
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 07/11/22 10:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	107		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 07/11/22 10:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 13:29
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-06 D
Client ID: MW-7
Sample Location: PHILA, PA

Date Collected: 07/11/22 13:30
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 14:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	25	1.2	5
Chloromethane	ND		ug/l	12	1.0	5
Vinyl chloride	ND		ug/l	5.0	0.36	5
Bromomethane	ND		ug/l	5.0	1.3	5
Chloroethane	ND		ug/l	5.0	0.67	5
Trichlorofluoromethane	ND		ug/l	12	0.80	5
1,1-Dichloroethene	ND		ug/l	2.5	0.84	5
Carbon disulfide	ND		ug/l	25	1.5	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	12	0.74	5
Methylene chloride	ND		ug/l	12	3.4	5
Acetone	12	J	ug/l	25	7.3	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	0.82	5
Methyl Acetate	ND		ug/l	10	1.2	5
Methyl tert butyl ether	ND		ug/l	5.0	0.83	5
1,1-Dichloroethane	ND		ug/l	3.8	1.0	5
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.94	5
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.82	5
Cyclohexane	2.6	J	ug/l	50	1.4	5
Bromochloromethane	ND		ug/l	12	0.76	5
Chloroform	ND		ug/l	3.8	1.1	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,1,1-Trichloroethane	ND		ug/l	2.5	0.79	5
2-Butanone	ND		ug/l	25	9.7	5
Benzene	37		ug/l	2.5	0.80	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
Methyl cyclohexane	3.3	J	ug/l	50	2.0	5
Trichloroethene	ND		ug/l	2.5	0.88	5
1,2-Dichloropropane	ND		ug/l	5.0	0.68	5

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-06 D
Client ID: MW-7
Sample Location: PHILA, PA
Date Collected: 07/11/22 13:30
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	2.5	0.96	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
Toluene	3.3	J	ug/l	3.8	1.0	5
Tetrachloroethene	ND		ug/l	2.5	0.90	5
4-Methyl-2-pentanone	ND		ug/l	25	2.1	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
1,3-Dichloropropene, Total	ND		ug/l	2.5	0.72	5
1,1,2-Trichloroethane	ND		ug/l	3.8	0.72	5
Dibromochloromethane	ND		ug/l	2.5	0.74	5
1,2-Dibromoethane	ND		ug/l	10	0.96	5
2-Hexanone	ND		ug/l	25	2.6	5
Chlorobenzene	ND		ug/l	2.5	0.89	5
Ethylbenzene	2.4	J	ug/l	2.5	0.84	5
p/m-Xylene	2.8	J	ug/l	5.0	1.7	5
o-Xylene	ND		ug/l	5.0	2.0	5
Xylenes, Total	2.8	J	ug/l	5.0	1.7	5
Styrene	ND		ug/l	5.0	1.8	5
Bromoform	ND		ug/l	10	1.2	5
Isopropylbenzene	0.94	J	ug/l	2.5	0.94	5
1,3,5-Trimethylbenzene	3.8	J	ug/l	12	1.1	5
1,2,4-Trimethylbenzene	9.8	J	ug/l	12	0.96	5
1,3-Dichlorobenzene	ND		ug/l	12	0.93	5
1,4-Dichlorobenzene	ND		ug/l	12	0.94	5
1,2-Dichlorobenzene	ND		ug/l	12	0.92	5
1,2-Dibromo-3-chloropropane	ND		ug/l	12	1.8	5
1,2,4-Trichlorobenzene	ND		ug/l	12	1.1	5
Naphthalene	4.2	J	ug/l	5.0	1.1	5
1,2,3-Trichlorobenzene	ND		ug/l	12	1.2	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-06 D
Client ID: MW-7
Sample Location: PHILA, PA
Date Collected: 07/11/22 13:30
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 14:41
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	15	5.4	5
1,1,2,2-Tetrachloroethane	ND		ug/l	0.250	0.029	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
4-Bromofluorobenzene	85		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-07 D
Client ID: MW-8
Sample Location: PHILA, PA

Date Collected: 07/11/22 09:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 15:05
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	10	0.49	2
Chloromethane	ND		ug/l	5.0	0.40	2
Vinyl chloride	ND		ug/l	2.0	0.14	2
Bromomethane	ND		ug/l	2.0	0.51	2
Chloroethane	ND		ug/l	2.0	0.27	2
Trichlorofluoromethane	ND		ug/l	5.0	0.32	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
Carbon disulfide	ND		ug/l	10	0.60	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	5.0	0.30	2
Methylene chloride	ND		ug/l	5.0	1.4	2
Acetone	ND		ug/l	10	2.9	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Methyl tert butyl ether	ND		ug/l	2.0	0.33	2
1,1-Dichloroethane	ND		ug/l	1.5	0.42	2
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.37	2
1,2-Dichloroethene, Total	ND		ug/l	1.0	0.33	2
Cyclohexane	8.5	J	ug/l	20	0.54	2
Bromochloromethane	ND		ug/l	5.0	0.30	2
Chloroform	ND		ug/l	1.5	0.44	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,1,1-Trichloroethane	ND		ug/l	1.0	0.32	2
2-Butanone	13		ug/l	10	3.9	2
Benzene	ND		ug/l	1.0	0.32	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
Methyl cyclohexane	14	J	ug/l	20	0.79	2
Trichloroethene	ND		ug/l	1.0	0.35	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-07 D
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 07/11/22 09:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	1.0	0.38	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
Toluene	ND		ug/l	1.5	0.41	2
Tetrachloroethene	ND		ug/l	1.0	0.36	2
4-Methyl-2-pentanone	ND		ug/l	10	0.83	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
1,3-Dichloropropene, Total	ND		ug/l	1.0	0.29	2
1,1,2-Trichloroethane	ND		ug/l	1.5	0.29	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,2-Dibromoethane	ND		ug/l	4.0	0.39	2
2-Hexanone	ND		ug/l	10	1.0	2
Chlorobenzene	ND		ug/l	1.0	0.36	2
Ethylbenzene	ND		ug/l	1.0	0.33	2
p/m-Xylene	ND		ug/l	2.0	0.66	2
o-Xylene	ND		ug/l	2.0	0.78	2
Xylenes, Total	ND		ug/l	2.0	0.66	2
Styrene	ND		ug/l	2.0	0.72	2
Bromoform	ND		ug/l	4.0	0.50	2
Isopropylbenzene	30		ug/l	1.0	0.37	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	0.43	2
1,2,4-Trimethylbenzene	0.73	J	ug/l	5.0	0.38	2
1,3-Dichlorobenzene	ND		ug/l	5.0	0.37	2
1,4-Dichlorobenzene	ND		ug/l	5.0	0.37	2
1,2-Dichlorobenzene	0.87	J	ug/l	5.0	0.37	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	0.71	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.44	2
Naphthalene	1.3	J	ug/l	2.0	0.43	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	0.47	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	92		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-07 D
Client ID: MW-8
Sample Location: PHILA, PA

Date Collected: 07/11/22 09:15
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 15:05
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	6.0	2.1	2
1,1,2,2-Tetrachloroethane	ND		ug/l	0.100	0.011	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-08
Client ID: MW-9
Sample Location: PHILA, PA

Date Collected: 07/11/22 11:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 11:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	96		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	15		ug/l	5.0	1.9	1
Benzene	1.3		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	1.8	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-08
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 07/11/22 11:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	14		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	2.1	J	ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	11		ug/l	0.50	0.17	1
p/m-Xylene	88		ug/l	1.0	0.33	1
o-Xylene	76		ug/l	1.0	0.39	1
Xylenes, Total	160		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	4.9		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	34		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	100		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	41		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	73		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-08
Client ID: MW-9
Sample Location: PHILA, PA

Date Collected: 07/11/22 11:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 11:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
4-Bromofluorobenzene	84		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 13:53
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 13:53
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 13:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 07:51
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 13:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 13:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 07:51
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-11
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/22 07:27
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-11
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-11
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 07:27
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/22 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1663966-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/22 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1663966-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/22 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1663966-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 07/15/22 07:02
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-11 Batch: WG1663973-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
4-Bromofluorobenzene	90		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2236752
Report Date: 07/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1663966-3 WG1663966-4								
Dichlorodifluoromethane	100		99		36-147	1		20
Chloromethane	94		91		64-130	3		20
Vinyl chloride	120		110		55-140	9		20
Bromomethane	81		97		39-139	18		20
Chloroethane	120		120		55-138	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,1-Dichloroethene	110		110		61-145	0		20
Carbon disulfide	110		100		51-130	10		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		70-130	0		20
Methylene chloride	110		100		70-130	10		20
Acetone	120		100		58-148	18		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Methyl Acetate	110		100		70-130	10		20
Methyl tert butyl ether	110		100		63-130	10		20
1,1-Dichloroethane	110		100		70-130	10		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Cyclohexane	100		100		70-130	0		20
Bromochloromethane	120		110		70-130	9		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
2-Butanone	130		110		63-138	17		20
Benzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2236752

Report Date: 07/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1663966-3 WG1663966-4								
1,2-Dichloroethane	100		95		70-130	5		20
Methyl cyclohexane	110		110		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichloropropane	110		100		70-130	10		20
Bromodichloromethane	110		100		67-130	10		20
cis-1,3-Dichloropropene	110		100		70-130	10		20
Toluene	110		110		70-130	0		20
Tetrachloroethene	110		110		70-130	0		20
4-Methyl-2-pentanone	100		100		59-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Dibromochloromethane	110		100		63-130	10		20
1,2-Dibromoethane	110		110		70-130	0		20
2-Hexanone	120		110		57-130	9		20
Chlorobenzene	110		110		75-130	0		20
Ethylbenzene	110		110		70-130	0		20
p/m-Xylene	120		120		70-130	0		20
o-Xylene	120		120		70-130	0		20
Styrene	115		115		70-130	0		20
Bromoform	100		100		54-136	0		20
Isopropylbenzene	110		110		70-130	0		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2236752

Report Date: 07/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1663966-3 WG1663966-4								
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	110		100		41-144	10		20
1,2,4-Trichlorobenzene	98		98		70-130	0		20
Naphthalene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		94		70-130
Toluene-d8	100		104		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	103		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2236752

Report Date: 07/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-11 Batch: WG1663973-3 WG1663973-4								
1,4-Dioxane	100		110		70-130	10		25
1,1,2,2-Tetrachloroethane	105		111		70-130	6		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		95		70-130
4-Bromofluorobenzene	89		89		70-130

METALS

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-01
Client ID: MW-1
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 07/11/22 11:00
Date Received: 07/11/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 13:52	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-02
Client ID: MW-2
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 07/11/22 12:10
Date Received: 07/11/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 13:57	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 07/11/22 09:40
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/16/22 09:16	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 07/11/22 12:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.5060	J	ug/l	1.000	0.3430	1	07/12/22 20:00	07/16/22 09:21	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-05
Client ID: MW-5
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 07/11/22 10:15
Date Received: 07/11/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 14:29	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-06
Client ID: MW-7
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 07/11/22 13:30
Date Received: 07/11/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.5604	J	ug/l	1.000	0.3430	1	07/12/22 20:00	07/16/22 09:26	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-07
Client ID: MW-8
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 07/11/22 09:15
Date Received: 07/11/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 14:40	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-08
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 07/11/22 11:45
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	27.70		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 14:45	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-09
Client ID: DUP-1
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 07/11/22 00:00
Date Received: 07/11/22
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 14:50	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Lab Number: L2236752
Project Number: 30108678.03B
Report Date: 07/25/22

SAMPLE RESULTS

Lab ID: L2236752-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 07/11/22 13:00
Date Received: 07/11/22
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 14:18	EPA 3005A	1,6020B	SV

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2236752
Report Date: 07/25/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1661934-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/12/22 20:00	07/15/22 13:09	1,6020B	SV

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2236752

Report Date: 07/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1661934-2								
Lead, Dissolved	101		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2236752
Report Date: 07/25/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1661934-3 WG1661934-4 QC Sample: L2233915-02 Client ID: MS Sample												
Lead, Dissolved	ND	530	526.0	99		531.3	100		75-125	1		20

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2236752
Report Date: 07/25/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2236752-01A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-01B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-01C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-01D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-02A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-02B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-02C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-02D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-03A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-03B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-03C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-03D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-04A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-04B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-04C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-04D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-05A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-05B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-05C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-05D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-06A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-06B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-06C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2236752
Report Date: 07/25/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2236752-06D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-07A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-07B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-07C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-07D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-08A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-08B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-08C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-08D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-09A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-09B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-09C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-09D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-10A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-10B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-10C	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-10D	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		PB-6020S-PPB(180)
L2236752-11A	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2236752-11B	Vial HCl preserved	A	NA		4.6	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2236752
Project Number:	30108678.03B	**Report Date:**	07/25/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2236752
Project Number:	30108678.03B	**Report Date:**	07/25/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2236752
Project Number:	30108678.03B	**Report Date:**	07/25/22

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2236752
Project Number:	30108678.03B	**Report Date:**	07/25/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/12/22

ALPHA Job #: L2236752

Client Information

Client: Arcadis

Address: 1 Universal Way Ste 1F
Hillsborough NJ

Phone: 908-526-1200

Fax:

Email: Larry.GrantJr@arcadis.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Millville 61st St

Project Location: Philly PA

Project #: 30086548.07B

Project Manager: Larry Grant

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: VOC + 10 Dissolved Lead

SAMPLE HANDLING

Filtration
☑ Done for Lead
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	Dissolved Lead	Sample Specific Comments	TOTAL # BOTTLES
36752-01	MW-1	7/11/22	1110	AQ	MDH/MA	X	X		4
-02	MW-2		1210			X	X		
-03	MW-3		945			X	X		
-04	MW-4		1245			X	X		
-05	MW-5		1015			X	X		
-06	MW-7		1325			X	X		
-07	MW-8		915			X	X		
-08	MW-9		1145			X	X		
-09	DUP1		X			X	X		
-10	Field Blank	↓	1300	↓	↓	X	X		
					Container Type	A,G	P		
					Preservative	A	F		

Relinquished By:	Date/Time	Received By:	Date/Time
Mike Hinch	7/11/22 1430		
Brad ARC	07.11.22 1800	ARC	07.11.22 H:25
	7/11/22 2100		7/11/22 0220

7/12/22 0220

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-01)

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/12/22

ALPHA Job #: L2236752

Client Information

Client: Aradigm
Address: 1 Harvard Way Ste A
Millsborough, NH
Phone: 908-526-1111
Fax:
Email: Larry.Brandt@aradigm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Aliguris 5151 51
Project Location: Phila, Pa
Project #: 30108678.03B
Project Manager: Larry Brandt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: VOC + 10

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
36752-11	Trip Blank		—	Aq	LG	X	2

Container Type	AV
Preservative	B

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hitchcock	7/11/22 1130	[illegible]	07.11.22 1425
[illegible]	07.11.22 1500	[illegible]	7/11 1600
[illegible]	7/11/22 2100	[illegible]	7/11/22 2100

7/12/22 0220

7/12/22 0220

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L2304271
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678
Report Date:	02/08/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2304271
Report Date: 02/08/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2304271-01	MW-1	WATER	PHILA, PA	01/25/23 11:20	01/25/23
L2304271-02	MW-2	WATER	PHILA, PA	01/25/23 12:10	01/25/23
L2304271-03	MW-3	WATER	PHILA, PA	01/25/23 09:50	01/25/23
L2304271-04	MW-4	WATER	PHILA, PA	01/25/23 12:15	01/25/23
L2304271-05	MW-5	WATER	PHILA, PA	01/25/23 10:30	01/25/23
L2304271-06	MW-7	WATER	PHILA, PA	01/25/23 13:15	01/25/23
L2304271-07	MW-8	WATER	PHILA, PA	01/25/23 08:35	01/25/23
L2304271-08	MW-9	WATER	PHILA, PA	01/25/23 11:20	01/25/23
L2304271-09	DUP-1	WATER	PHILA, PA	01/25/23 00:00	01/25/23
L2304271-10	FIELD BLANK	WATER	PHILA, PA	01/25/23 12:50	01/25/23
L2304271-11	MW-9 FF	WATER	PHILA, PA	01/25/23 11:20	01/25/23
L2304271-12	TRIP BLANK	WATER	PHILA, PA	01/24/23 00:00	01/25/23

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2304271
Project Number:	30108678	**Report Date:**	02/08/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2304271
Project Number:	30108678	**Report Date:**	02/08/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Tetraethyl Lead was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Volatile Organics

L2304271-08: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (55%), possibly due to the matrix effect caused by the high pH of the sample (>10).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 02/08/23

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-01
Client ID: MW-1
Sample Location: PHILA, PA

Date Collected: 01/25/23 11:20
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/06/23 08:22
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	0.41	J	ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	12		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	1.1		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-01 Date Collected: 01/25/23 11:20

Client ID: MW-1 Date Received: 01/25/23

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.89		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	2.8		ug/l	1.0	0.33	1
o-Xylene	0.86	J	ug/l	1.0	0.39	1
Xylenes, Total	3.7	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	2.0		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.35	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	91		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-01
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 01/25/23 11:20
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/06/23 08:22
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
4-Bromofluorobenzene	95		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-02
Client ID: MW-2
Sample Location: PHILA, PA

Date Collected: 01/25/23 12:10
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/03/23 09:43
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	4.3	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	2.9		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	3.8	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	4.0		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	4.0	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-02 Date Collected: 01/25/23 12:10

Client ID: MW-2 Date Received: 01/25/23

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.9		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.57		ug/l	0.50	0.17	1
p/m-Xylene	2.8		ug/l	1.0	0.33	1
o-Xylene	5.7		ug/l	1.0	0.39	1
Xylenes, Total	8.5		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.48	J	ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	5.2		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	3.9		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	6.0		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	108		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-02
Client ID: MW-2
Sample Location: PHILA, PA
Date Collected: 01/25/23 12:10
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/03/23 09:43
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
4-Bromofluorobenzene	96		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-03
Client ID: MW-3
Sample Location: PHILA, PA

Date Collected: 01/25/23 09:50
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/03/23 10:07
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-03 Date Collected: 01/25/23 09:50

Client ID: MW-3 Date Received: 01/25/23

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-03
Client ID: MW-3
Sample Location: PHILA, PA

Date Collected: 01/25/23 09:50
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/03/23 10:07
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
4-Bromofluorobenzene	96		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-04 Date Collected: 01/25/23 12:15
Client ID: MW-4 Date Received: 01/25/23
Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/02/23 10:47
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	9.0		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-04 Date Collected: 01/25/23 12:15

Client ID: MW-4 Date Received: 01/25/23

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	0.78	J	ug/l	1.0	0.33	1
o-Xylene	0.51	J	ug/l	1.0	0.39	1
Xylenes, Total	1.3	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	0.46	J	ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	1.0	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	1.0		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 01/25/23 12:15
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/02/23 10:47
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
4-Bromofluorobenzene	97		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-05 Date Collected: 01/25/23 10:30
Client ID: MW-5 Date Received: 01/25/23
Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/03/23 10:32
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	13		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-05 Date Collected: 01/25/23 10:30

Client ID: MW-5 Date Received: 01/25/23

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 01/25/23 10:30
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/03/23 10:32
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
4-Bromofluorobenzene	98		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-06
Client ID: MW-7
Sample Location: PHILA, PA

Date Collected: 01/25/23 13:15
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/02/23 11:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	0.68	J	ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	17		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.86	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	4.0	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	44		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.51		ug/l	0.50	0.13	1
Methyl cyclohexane	4.0	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-06 Date Collected: 01/25/23 13:15

Client ID: MW-7 Date Received: 01/25/23

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	3.8		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	1.9		ug/l	0.50	0.17	1
p/m-Xylene	3.0		ug/l	1.0	0.33	1
o-Xylene	1.6		ug/l	1.0	0.39	1
Xylenes, Total	4.6		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.78		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	2.7		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	4.9		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	1.3		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-06
Client ID: MW-7
Sample Location: PHILA, PA
Date Collected: 01/25/23 13:15
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/02/23 11:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
4-Bromofluorobenzene	97		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-07
Client ID: MW-8
Sample Location: PHILA, PA

Date Collected: 01/25/23 08:35
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/06/23 09:11
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	4.6	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	6.2	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-07 Date Collected: 01/25/23 08:35

Client ID: MW-8 Date Received: 01/25/23

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	0.19	J	ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	8.3		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	0.22	J	ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.58	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	98		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2304271
Project Number: 30108678
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-07
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 01/25/23 08:35
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/06/23 09:11
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
4-Bromofluorobenzene	95		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-08
Client ID: MW-9
Sample Location: PHILA, PA

Date Collected: 01/25/23 11:20
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/02/23 10:23
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	130		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	0.43	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	23		ug/l	5.0	1.9	1
Benzene	2.2		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	4.6	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-08 Date Collected: 01/25/23 11:20

Client ID: MW-9 Date Received: 01/25/23

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	20		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	1.8	J	ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	3.5	J	ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	20		ug/l	0.50	0.17	1
p/m-Xylene	130		ug/l	1.0	0.33	1
o-Xylene	96		ug/l	1.0	0.39	1
Xylenes, Total	230		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	9.0		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	62		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	160		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	95		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	**55**	Q	70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-08
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 01/25/23 11:20
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/02/23 10:23
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
4-Bromofluorobenzene	95		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-09
Client ID: DUP-1
Sample Location: PHILA, PA

Date Collected: 01/25/23 00:00
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/02/23 11:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-09 Date Collected: 01/25/23 00:00

Client ID: DUP-1 Date Received: 01/25/23

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 01/25/23 00:00
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/02/23 11:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
4-Bromofluorobenzene	97		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 01/25/23 12:50
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/02/23 08:21
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-10 Date Collected: 01/25/23 12:50

Client ID: FIELD BLANK Date Received: 01/25/23

Sample Location: PHILA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 01/25/23 12:50
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/02/23 08:21
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
4-Bromofluorobenzene	99		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-12 Date Collected: 01/24/23 00:00
Client ID: TRIP BLANK Date Received: 01/25/23
Sample Location: PHILA, PA Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/02/23 08:46
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-12 Date Collected: 01/24/23 00:00

Client ID: TRIP BLANK Date Received: 01/25/23

Sample Location: PHILA, PA Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-12
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 01/24/23 00:00
Date Received: 01/25/23
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/02/23 08:46
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
4-Bromofluorobenzene	98		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/02/23 07:57
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04,06,08-10,12 Batch: WG1740448-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/02/23 07:57
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04,06,08-10,12 Batch: WG1740448-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/02/23 07:57
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04,06,08-10,12 Batch: WG1740448-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/02/23 07:57
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 04,06,08-10,12 Batch: WG1740455-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
4-Bromofluorobenzene	98		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/03/23 06:00
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02-03,05 Batch: WG1741201-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
4-Bromofluorobenzene	98		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/03/23 06:00
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05 Batch: WG1741206-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/03/23 06:00
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05 Batch: WG1741206-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/03/23 06:00
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05 Batch: WG1741206-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/06/23 07:58
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,07 Batch: WG1741567-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/06/23 07:58
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,07 Batch: WG1741567-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2304271

Project Number: 30108678 **Report Date:** 02/08/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/06/23 07:58
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,07 Batch: WG1741567-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 02/06/23 07:58
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,07 Batch: WG1741574-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
4-Bromofluorobenzene	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2304271
Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04,06,08-10,12 Batch: WG1740448-3 WG1740448-4								
Dichlorodifluoromethane	100		110		36-147	10		20
Chloromethane	100		100		64-130	0		20
Vinyl chloride	110		100		55-140	10		20
Bromomethane	94		86		39-139	9		20
Chloroethane	98		96		55-138	2		20
Trichlorofluoromethane	98		100		62-150	2		20
1,1-Dichloroethene	100		100		61-145	0		20
Carbon disulfide	100		110		51-130	10		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		70-130	0		20
Methylene chloride	100		100		70-130	0		20
Acetone	130		130		58-148	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Methyl Acetate	110		110		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Cyclohexane	110		110		70-130	0		20
Bromochloromethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	100		110		63-132	10		20
1,1,1-Trichloroethane	110		110		67-130	0		20
2-Butanone	110		110		63-138	0		20
Benzene	110		110		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2304271
Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04,06,08-10,12 Batch: WG1740448-3 WG1740448-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	120		120		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Bromodichloromethane	110		110		67-130	0		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
Toluene	110		120		70-130	9		20
Tetrachloroethene	120		120		70-130	0		20
4-Methyl-2-pentanone	100		100		59-130	0		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Dibromochloromethane	100		110		63-130	10		20
1,2-Dibromoethane	110		110		70-130	0		20
2-Hexanone	110		110		57-130	0		20
Chlorobenzene	110		120		75-130	9		20
Ethylbenzene	120		120		70-130	0		20
p/m-Xylene	120		115		70-130	4		20
o-Xylene	120		120		70-130	0		20
Styrene	115		115		70-130	0		20
Bromoform	100		100		54-136	0		20
Isopropylbenzene	110		110		70-130	0		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2304271

Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04,06,08-10,12 Batch: WG1740448-3 WG1740448-4								
1,3-Dichlorobenzene	120		120		70-130	0		20
1,4-Dichlorobenzene	120		120		70-130	0		20
1,2-Dichlorobenzene	120		120		70-130	0		20
1,2-Dibromo-3-chloropropane	110		100		41-144	10		20
1,2,4-Trichlorobenzene	92		94		70-130	2		20
Naphthalene	74		74		70-130	0		20
1,2,3-Trichlorobenzene	91		92		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	102		104		70-130
4-Bromofluorobenzene	101		96		70-130
Dibromofluoromethane	98		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2304271

Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 04,06,08-10,12 Batch: WG1740455-3 WG1740455-4								
1,4-Dioxane	72		76		70-130	5		25
1,1,2,2-Tetrachloroethane	85		84		70-130	1		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		97		70-130
4-Bromofluorobenzene	98		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2304271
Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1741201-3 WG1741201-4								
1,4-Dioxane	120		120		70-130	0		25
1,1,2,2-Tetrachloroethane	114		109		70-130	4		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
4-Bromofluorobenzene	98		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2304271

Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1741206-3 WG1741206-4								
Dichlorodifluoromethane	100		100		36-147	0		20
Chloromethane	100		100		64-130	0		20
Vinyl chloride	100		100		55-140	0		20
Bromomethane	95		98		39-139	3		20
Chloroethane	94		93		55-138	1		20
Trichlorofluoromethane	97		94		62-150	3		20
1,1-Dichloroethene	100		97		61-145	3		20
Carbon disulfide	110		100		51-130	10		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		100		70-130	10		20
Methylene chloride	100		100		70-130	0		20
Acetone	140		130		58-148	7		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Methyl Acetate	110		110		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Cyclohexane	110		110		70-130	0		20
Bromochloromethane	120		110		70-130	9		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	110		100		63-132	10		20
1,1,1-Trichloroethane	100		100		67-130	0		20
2-Butanone	120		130		63-138	8		20
Benzene	110		110		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2304271
Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1741206-3 WG1741206-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	120		110		70-130	9		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichloropropane	110		100		70-130	10		20
Bromodichloromethane	110		110		67-130	0		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
Toluene	110		110		70-130	0		20
Tetrachloroethene	120		110		70-130	9		20
4-Methyl-2-pentanone	98		99		59-130	1		20
trans-1,3-Dichloropropene	110		100		70-130	10		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,2-Dibromoethane	110		110		70-130	0		20
2-Hexanone	120		110		57-130	9		20
Chlorobenzene	110		110		75-130	0		20
Ethylbenzene	120		110		70-130	9		20
p/m-Xylene	115		110		70-130	4		20
o-Xylene	115		110		70-130	4		20
Styrene	115		110		70-130	4		20
Bromoform	110		100		54-136	10		20
Isopropylbenzene	110		110		70-130	0		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		99		70-130	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2304271

Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1741206-3 WG1741206-4								
1,3-Dichlorobenzene	120		110		70-130	9		20
1,4-Dichlorobenzene	120		110		70-130	9		20
1,2-Dichlorobenzene	120		110		70-130	9		20
1,2-Dibromo-3-chloropropane	100		100		41-144	0		20
1,2,4-Trichlorobenzene	95		86		70-130	10		20
Naphthalene	73		71		70-130	3		20
1,2,3-Trichlorobenzene	96		86		70-130	11		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	99		97		70-130
Dibromofluoromethane	100		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2304271

Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,07 Batch: WG1741567-3 WG1741567-4								
Dichlorodifluoromethane	100		99		36-147	1		20
Chloromethane	100		98		64-130	2		20
Vinyl chloride	95		97		55-140	2		20
Bromomethane	88		90		39-139	2		20
Chloroethane	86		90		55-138	5		20
Trichlorofluoromethane	97		96		62-150	1		20
1,1-Dichloroethene	100		97		61-145	3		20
Carbon disulfide	100		100		51-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		100		70-130	10		20
Methylene chloride	100		100		70-130	0		20
Acetone	120		120		58-148	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Methyl Acetate	110		110		70-130	0		20
Methyl tert butyl ether	96		100		63-130	4		20
1,1-Dichloroethane	110		100		70-130	10		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Cyclohexane	110		100		70-130	10		20
Bromochloromethane	120		120		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		100		63-132	10		20
1,1,1-Trichloroethane	110		100		67-130	10		20
2-Butanone	100		120		63-138	18		20
Benzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2304271

Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,07 Batch: WG1741567-3 WG1741567-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	120		110		70-130	9		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Bromodichloromethane	110		110		67-130	0		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
Toluene	110		110		70-130	0		20
Tetrachloroethene	120		120		70-130	0		20
4-Methyl-2-pentanone	94		100		59-130	6		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
1,1,2-Trichloroethane	100		110		70-130	10		20
Dibromochloromethane	100		100		63-130	0		20
1,2-Dibromoethane	110		110		70-130	0		20
2-Hexanone	100		110		57-130	10		20
Chlorobenzene	120		110		75-130	9		20
Ethylbenzene	110		110		70-130	0		20
p/m-Xylene	115		110		70-130	4		20
o-Xylene	115		110		70-130	4		20
Styrene	110		110		70-130	0		20
Bromoform	100		100		54-136	0		20
Isopropylbenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		94		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2304271

Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,07 Batch: WG1741567-3 WG1741567-4								
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	98		100		41-144	2		20
1,2,4-Trichlorobenzene	97		86		70-130	12		20
Naphthalene	76		73		70-130	4		20
1,2,3-Trichlorobenzene	94		86		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	98		100		70-130
4-Bromofluorobenzene	91		95		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2304271

Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,07 Batch: WG1741574-3 WG1741574-4								
1,4-Dioxane	81		81		70-130	0		25
1,1,2,2-Tetrachloroethane	89		90		70-130	1		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
4-Bromofluorobenzene	94		94		70-130

METALS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-01
Client ID: MW-1
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/25/23 11:20
Date Received: 01/25/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/27/23 12:21	01/29/23 19:47	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-02
Client ID: MW-2
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/25/23 12:10
Date Received: 01/25/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/27/23 12:21	01/30/23 18:13	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-03
Client ID: MW-3
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/25/23 09:50
Date Received: 01/25/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/27/23 12:21	01/30/23 18:19	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 01/25/23 12:15
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.7686	J	ug/l	1.000	0.3430	1	01/27/23 12:21	01/30/23 18:24	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 01/25/23 10:30
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/27/23 12:21	01/30/23 18:29	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-06
Client ID: MW-7
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/25/23 13:15
Date Received: 01/25/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	1.015		ug/l	1.000	0.3430	1	01/27/23 12:21	01/30/23 18:35	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-07
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 01/25/23 08:35
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/27/23 12:21	01/30/23 18:40	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-08
Client ID: MW-9
Sample Location: PHILA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/25/23 11:20
Date Received: 01/25/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	23.53		ug/l	1.000	0.3430	1	01/27/23 12:21	01/30/23 18:45	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-09
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 01/25/23 00:00
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/27/23 12:21	01/30/23 18:50	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-10
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 01/25/23 12:50
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/27/23 12:21	01/30/23 18:56	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

SAMPLE RESULTS

Lab ID: L2304271-11
Client ID: MW-9 FF
Sample Location: PHILA, PA
Date Collected: 01/25/23 11:20
Date Received: 01/25/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	21.45		ug/l	1.000	0.3430	1	01/27/23 12:21	01/30/23 19:01	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2304271
Report Date: 02/08/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1737727-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/27/23 12:21	01/29/23 20:04	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2304271

Report Date: 02/08/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1737727-2								
Lead, Dissolved	101		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2304271
Report Date: 02/08/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1737727-3 QC Sample: L2304271-01 Client ID: MW-1												
Lead, Dissolved	ND	530	541.2	102		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2304271
Report Date: 02/08/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1737727-4 QC Sample: L2304271-01 Client ID: MW-1						
Lead, Dissolved	ND	ND	ug/l	NC		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2304271
Report Date: 02/08/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2304271-01A	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-01B	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-01C	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-01D	Plastic 250ml HNO3 preserved	A	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2304271-02A	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-02B	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-02C	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-02D	Plastic 250ml HNO3 preserved	A	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2304271-03A	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-03B	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-03C	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-03D	Plastic 250ml HNO3 preserved	A	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2304271-04A	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-04B	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-04C	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-04D	Plastic 250ml HNO3 preserved	A	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2304271-05A	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-05B	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-05C	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-05D	Plastic 250ml HNO3 preserved	A	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2304271-06A	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-06B	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-06C	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2304271
Report Date: 02/08/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2304271-06D	Plastic 250ml HNO3 preserved	A	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2304271-07A	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-07B	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-07C	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-07D	Plastic 250ml HNO3 preserved	A	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2304271-08A	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-08B	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-08C	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-08D	Plastic 250ml HNO3 preserved	A	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2304271-08E	Amber 250ml unpreserved	A	13	13	4.7	Y	Absent		SUB-ORGLEAD()
L2304271-08F	Amber 250ml unpreserved	A	13	13	4.7	Y	Absent		SUB-ORGLEAD()
L2304271-09A	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-09B	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-09C	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-09D	Plastic 250ml HNO3 preserved	A	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2304271-10A	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-10B	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-10C	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-10D	Plastic 250ml HNO3 preserved	A	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2304271-10E	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		SUB-ORGLEAD()
L2304271-10F	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		SUB-ORGLEAD()
L2304271-11D	Plastic 250ml HNO3 preserved	A	<2	<2	4.7	Y	Absent		PB-6020S-PPB(180)
L2304271-11E	Amber 250ml unpreserved	A	13	13	4.7	Y	Absent		SUB-ORGLEAD()
L2304271-11F	Amber 250ml unpreserved	A	13	13	4.7	Y	Absent		SUB-ORGLEAD()
L2304271-12A	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2304271-12B	Vial HCl preserved	A	NA		4.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2304271
Project Number:	30108678	**Report Date:**	02/08/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2304271
Project Number:	30108678	**Report Date:**	02/08/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2304271
Project Number:	30108678	**Report Date:**	02/08/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2304271
Project Number:	30108678	**Report Date:**	02/08/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 1/26/23

ALPHA Job #: L2304271

Client Information

Client: Arradi's
Address: 1 Harvard Way Ste 5
Hillsborough NH
Phone: 908-526-1000
Fax:
Email: Larry.Blunt@arradis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance Glass Plant
Project Location: Phila, PA
Project #: 30108678
Project Manager: Larry Blunt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:
Include MAP, 1,2,4 TMB, 1,3,5 TMB

ANALYSIS: VOC +IC; Dissolved Lead; Total Ethyl Lead (TEL)

SAMPLE HANDLING
Filtration
☑ Done Air Lab
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC +IC	Dissolved Lead	Total Ethyl Lead (TEL)	Sample Specific Comments	TOTAL # BOTTLES
0427-01	MW-1	1/25/23	1120	AQ	MH/MK	X	X			4
02	MW-2		1210			X	X			
03	MW-3		950			X	X			
04	MW-4		1215			X	X			
05	MW-5		1030			X	X			
06	MW-7		1315			X	X			
07	MW-8		835			X	X			4
08	MW-9		1120			X	X	X		6
09	DUP-1		X			X	X			4
10	Field Blank		1215			X	X	X		6

Container Type	AV	P	A								
Preservative	R	C	N								

Relinquished By:	Date/Time	Received By:	Date/Time
	1/25/23 1400		1/25/23 1400
	1/25/23 1800		1/25/23 1800
	1/25/23 2100		1/25/23 2100

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07) 1/26/23 0145

CHAIN OF CUSTODY

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Date Rec'd in Lab: 1/26/23

ALPHA Job #: L2304271

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Arcadis

Address: 1 Harvard Way Ste 1

Hollis Borough NH

Phone: 978-826-1100

Fax:

Email: Larry.Brunk@arcadis.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Airgas Fire Event

Project Location: Pelham, NH

Project #: 30106678

Project Manager: Larry Brunk

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Include Mw-1, 1,2,4 TMB, 1,3,5 TMB

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC (+10)	Diss. Lead	Tot. Lead	Tot. Pb (TRL)	# BOTTLES
04271-11	MW-9 FR	1/25/23	1120	AG			X	X		3
12	Trip Blank	1/24/23	—	AG	LAC	X				2

SAMPLE HANDLING

Filtration
☑ Done (for Diss. Pb)
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

Container Type	A	P	A
Preservative	B	C	A

Relinquished By:	Date/Time	Received By:	Date/Time
	1/25/23 1400		1/25/23 1400
MAL	1/25/23 1800	MAL	1/25/23 1800
MAL	1/25/23 2100	MAL	1-25-23 2100
	1/26/23 0145		1-25-23 2240

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Subcontract Chain of Custody

McCampbell Analytical, Inc.
1534 Willow Pass Road
Pittsburg, CA 94565

Alpha Job Number
L2304271

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 201.812.2633
Email: brao@alphalab.com

Project Information

Project Location: PA
Project Manager: Ben Rao

Turnaround & Deliverables Information

Due Date: 02/08/23
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:

Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2304271

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com and brao@alphalab.com. Report TEL only. NJ Reduced deliverble package.

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-9	01-25-23 11:20	WATER	Organic Lead by Method 8270	
	FIELD BLANK	01-25-23 12:50	WATER	Organic Lead by Method 8270	
	MW-9 FF	01-25-23 11:20	WATER	Organic Lead by Method 8270	

Relinquished By:	Date/Time:	Received By:	Date/Time:
	1/30/23		

Form No: AL_subcoc

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2302017

Report Created for: Alpha Analytical, Inc.

320 Forbes Blvd
Mansfield, MA 02048

Project Contact: Ben Rao
Project P.O.:
Project: L2304271

Project Received: 02/01/2023

Analytical Report reviewed & approved for release on 02/08/2023 by:

Christine Askari
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033 ORELAP

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Alpha Analytical, Inc. **WorkOrder:** 2302017

Project: L2304271

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016.
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting limit is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	Alpha Analytical, Inc.	**WorkOrder:**	2302017
Date Received:	02/01/2023 9:39	**Extraction Method:**	SW3510C
Date Prepared:	02/03/2023	**Analytical Method:**	SW8270C
Project:	L2304271	**Unit:**	µg/L

Organic Lead (speciated) by GC-MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-9	2302017-001A	Water	01/25/2023 11:20	GC46 F0207230408.D	263042

Analytes	Result	RL	DF	Date Analyzed
Tetraethyl Lead	ND	0.050	1	02/07/2023 19:59

Surrogates	REC (%)	Limits	
2-Fluorobiphenyl	103	50-150	02/07/2023 19:59

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Field Blank	2302017-002A	Water	01/25/2023 12:50	GC46 F0207230409.D	263042

Analytes	Result	RL	DF	Date Analyzed
Tetraethyl Lead	ND	0.050	1	02/07/2023 20:28

Surrogates	REC (%)	Limits	
2-Fluorobiphenyl	95	50-150	02/07/2023 20:28

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-9 FF	2302017-003A	Water	01/25/2023 11:20	GC46 F0207230405.D	263042

Analytes	Result	RL	DF	Date Analyzed
Tetraethyl Lead	ND	0.050	1	02/07/2023 18:31

Surrogates	REC (%)	Limits	
2-Fluorobiphenyl	107	50-150	02/07/2023 18:31

Analyst(s): TD

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Quality Control Report

Client:	Alpha Analytical, Inc.	**WorkOrder:**	2302017
Date Prepared:	02/03/2023	**BatchID:**	263042
Date Analyzed:	02/07/2023	**Extraction Method:**	SW3510C
Instrument:	GC46	**Analytical Method:**	SW8270C
Matrix:	Water	**Unit:**	µg/L
Project:	L2304271	**Sample ID:**	MB/LCS/LCSD-263042 2302017-003AMS/MSD

QC Summary Report for Organic Lead by GC-MS

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Tetraethyl Lead	ND	0.021	0.050	-	-	-
Tetramethyl Lead	ND	0.036	0.050	-	-	-
Surrogate Recovery						
2-Fluorobiphenyl	5.4			5	108	50-150

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Tetraethyl Lead	3.2	2.9	2.5	129	118	50-150	9.49	30
Tetramethyl Lead	2.1	2.9	2.5	86	114	50-150	28.7	30
Surrogate Recovery								
2-Fluorobiphenyl	5.0	4.5	5	101	90	50-150	11.3	30

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Tetraethyl Lead	1	2.8	3.0	2.5	ND	111	122	50-150	9.34	30
Surrogate Recovery										
2-Fluorobiphenyl	1	5.1	5.1	5		102	103	50-150	1.39	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 2302017 **ClientCode: AAMA**

☐ WaterTrax ☐ CLIP ☐ EDF ☐ EQuIS ☒ Dry-Weight ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Excel

Report to:
Ben Rao
Alpha Analytical, Inc.
320 Forbes Blvd
Mansfield, MA 02048
(508) 844-4117 FAX:

Email: brao@alphalab.com; subreports@alphalab.
cc/3rd Party:
PO:
Project: L2304271

Bill to:
Finance
Alpha Analytical, Inc.
320 Forbes Blvd
Mansfield, MA 02048
ap@alphalab.com

Requested TAT: **5 days;**

Date Received: **02/01/2023**
Date Logged: **02/01/2023**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2302017-001	MW-9	Water	1/25/2023 11:20	☐	A	A										
2302017-002	Field Blank	Water	1/25/2023 12:50	☐	A	A										
2302017-003	MW-9 FF	Water	1/25/2023 11:20	☐	A	A										

Test Legend:

1	MAI_OPBMS_W	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: ALPHA ANALYTICAL, INC. **Project:** L2304271 **Work Order:** 2302017
Client Contact: Ben Rao **QC Level:** LEVEL 2
Contact's Email: brao@alphalab.com; subreports@alphalab.com **Comments:** **Date Logged:** 2/1/2023

☐WaterTrax ☐CLIP ☐EDF ☐Excel ☐EQuIS ☐Email ☐HardCopy ☐ThirdParty ☐J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	MW-9	Water	SW8270C - Organic Lead (speciated) <Tetraethyl Lead>	2	250mL aG, Unpres	☐	☐	☐	1/25/2023 11:20	5 days	2/8/2023	Present	☐	☐
002A	Field Blank	Water	SW8270C - Organic Lead (speciated) <Tetraethyl Lead>	2	250mL aG, Unpres	☐	☐	☐	1/25/2023 12:50	5 days	2/8/2023	None	☐	☐
003A	MW-9 FF	Water	SW8270C - Organic Lead (speciated) <Tetraethyl Lead>	2	250mL aG, Unpres	☐	☐	☐	1/25/2023 11:20	5 days	2/8/2023	None	☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

2302017

Subcontract Chain of Custody

McCampbell Analytical, Inc.
1534 Willow Pass Road
Pittsburg, CA 94565

Alpha Job Number
L2304271

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 201.812.2633 Email: brao@alphalab.com	Project Location: PA Project Manager: Ben Rao **Turnaround & Deliverables Information** Due Date: 02/08/23 Deliverables:	State/Federal Program: Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2304271

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com and brao@alphalab.com. Report TEL only. NJ Reduced deliverble package.

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-9	01-25-23 11:20	WATER	Organic Lead by Method 8270	
	FIELD BLANK	01-25-23 12:50	WATER	Organic Lead by Method 8270	
	MW-9 FF	01-25-23 11:20	WATER	Organic Lead by Method 8270	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		1/30/23		2/1/2023 0939
Form No: AL_subcoc				

UPS 1ZE30654019813735 1

1.7C wet

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: Alpha Analytical, Inc.
Project: L2304271

Date and Time Received: 2/1/2023 09:39
Date Logged: 2/1/2023
Received by: Agustina Venegas
Logged by: Agustina Venegas

WorkOrder №: 2302017 Matrix: Water
Carrier: UPS

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☐	No ☑	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	
(Ice Type: WET ICE)			
Sample/Temp Blank temperature	Temp: 1.7°C		NA ☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes ☐	No ☐	NA ☑

Comments:

ANALYTICAL REPORT

Lab Number:	L2323142
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST ST
Project Number:	30108678
Report Date:	05/12/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2323142
Report Date: 05/12/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2323142-01	MW-1	WATER	PHILA, PA	04/28/23 08:55	04/28/23
L2323142-02	MW-2	WATER	PHILA, PA	04/28/23 08:30	04/28/23
L2323142-03	MW-3	WATER	PHILA, PA	04/28/23 08:10	04/28/23
L2323142-04	MW-4	WATER	PHILA, PA	04/28/23 09:45	04/28/23
L2323142-05	MW-5	WATER	PHILA, PA	04/28/23 10:05	04/28/23
L2323142-06	MW-7	WATER	PHILA, PA	04/28/23 09:20	04/28/23
L2323142-07	MW-8	WATER	PHILA, PA	04/28/23 11:00	04/28/23
L2323142-08	MW-9	WATER	PHILA, PA	04/28/23 10:25	04/28/23
L2323142-09	MW-9FF	WATER	PHILA, PA	04/28/23 10:25	04/28/23
L2323142-10	DUP-1	WATER	PHILA, PA	04/28/23 00:00	04/28/23
L2323142-11	FIELD BLANK	WATER	PHILA, PA	04/28/23 11:10	04/28/23
L2323142-12	TRIP BLANK	WATER	PHILA, PA	04/27/23 00:00	04/28/23

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2323142
Project Number:	30108678	**Report Date:**	05/12/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2323142
Project Number:	30108678	**Report Date:**	05/12/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2323142-08 and -08R\D: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

L2323142-08: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (53%), possibly due to the matrix effect caused by the high pH of the sample (>10).

Volatile Organics by SIM

L2323142-08: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 05/12/23

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-01
Client ID: MW-1
Sample Location: PHILA, PA

Date Collected: 04/28/23 08:55
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/06/23 07:57
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	9.4	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.92		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	9.1	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-01
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 04/28/23 08:55
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.75		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	2.3		ug/l	1.0	0.33	1
o-Xylene	0.64	J	ug/l	1.0	0.39	1
Xylenes, Total	2.9	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	2.3		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.36	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	87		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-01
Client ID: MW-1
Sample Location: PHILA, PA

Date Collected: 04/28/23 08:55
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/04/23 11:27
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
4-Bromofluorobenzene	104		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-02
Client ID: MW-2
Sample Location: PHILA, PA

Date Collected: 04/28/23 08:30
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/06/23 08:40
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	2.5		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	3.5	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	3.3		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	3.6	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-02
Client ID: MW-2
Sample Location: PHILA, PA
Date Collected: 04/28/23 08:30
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.6		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.49	J	ug/l	0.50	0.17	1
p/m-Xylene	2.6		ug/l	1.0	0.33	1
o-Xylene	5.2		ug/l	1.0	0.39	1
Xylenes, Total	7.8		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.43	J	ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	4.6		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	3.7		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	7.1		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-02
Client ID: MW-2
Sample Location: PHILA, PA
Date Collected: 04/28/23 08:30
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/04/23 13:53
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
4-Bromofluorobenzene	93		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-03
Client ID: MW-3
Sample Location: PHILA, PA

Date Collected: 04/28/23 08:10
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/06/23 09:22
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 04/28/23 08:10
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 04/28/23 08:10
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/04/23 11:51
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
4-Bromofluorobenzene	97		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-04
Client ID: MW-4
Sample Location: PHILA, PA

Date Collected: 04/28/23 09:45
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/06/23 10:05
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	6.3		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 04/28/23 09:45
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	110		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 04/28/23 09:45
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/04/23 12:16
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	97		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-05
Client ID: MW-5
Sample Location: PHILA, PA

Date Collected: 04/28/23 10:05
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/06/23 10:47
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 04/28/23 10:05
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	107		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 04/28/23 10:05
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/04/23 12:40
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
4-Bromofluorobenzene	87		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-06
Client ID: MW-7
Sample Location: PHILA, PA

Date Collected: 04/28/23 09:20
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/06/23 11:30
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.88	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	0.26	J	ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	0.26	J	ug/l	0.50	0.16	1
Cyclohexane	4.1	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	41		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.47	J	ug/l	0.50	0.13	1
Methyl cyclohexane	3.7	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-06
Client ID: MW-7
Sample Location: PHILA, PA
Date Collected: 04/28/23 09:20
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	3.4		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	1.8		ug/l	0.50	0.17	1
p/m-Xylene	2.7		ug/l	1.0	0.33	1
o-Xylene	1.3		ug/l	1.0	0.39	1
Xylenes, Total	4.0		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.74		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	1.8	J	ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	4.2		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	1.7		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	107		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-06
Client ID: MW-7
Sample Location: PHILA, PA
Date Collected: 04/28/23 09:20
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/04/23 13:04
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	97		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-07
Client ID: MW-8
Sample Location: PHILA, PA

Date Collected: 04/28/23 11:00
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/06/23 12:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	3.0	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	4.9	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-07
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 04/28/23 11:00
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	0.24	J	ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	6.5		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	0.20	J	ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.43	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	104		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-07
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 04/28/23 11:00
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/04/23 13:29
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
4-Bromofluorobenzene	98		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-08
Client ID: MW-9
Sample Location: PHILA, PA

Date Collected: 04/28/23 10:25
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/06/23 08:03
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	130		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	0.35	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	27		ug/l	5.0	1.9	1
Benzene	2.6		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	4.7	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-08
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 04/28/23 10:25
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	22		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	1.6	J	ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	3.3	J	ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	22		ug/l	0.50	0.17	1
p/m-Xylene	160		ug/l	1.0	0.33	1
o-Xylene	110		ug/l	1.0	0.39	1
Xylenes, Total	270		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	8.5		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	64		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	200		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	**53**	Q	70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-08
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 04/28/23 10:25
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/06/23 08:03
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
4-Bromofluorobenzene	92		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-08 R\D
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 04/28/23 10:25
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/08/23 09:39
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Naphthalene	120		ug/l	2.0	0.43	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	74		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-10
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 04/28/23 00:00
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/08/23 08:56
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	2.9	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	4.9	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-10
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 04/28/23 00:00
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	0.24	J	ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	6.0		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	0.20	J	ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.44	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-10
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 04/28/23 00:00
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/06/23 08:27
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
4-Bromofluorobenzene	101		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-11
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 04/28/23 11:10
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/06/23 07:15
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-11
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 04/28/23 11:10
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	109		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-11
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 04/28/23 11:10
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/04/23 08:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
4-Bromofluorobenzene	96		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-12
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 04/27/23 00:00
Date Received: 04/28/23
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/08/23 07:31
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-12
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 04/27/23 00:00
Date Received: 04/28/23
Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	110		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-12
Client ID: TRIP BLANK
Sample Location: PHILA, PA
Date Collected: 04/27/23 00:00
Date Received: 04/28/23
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/04/23 08:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
4-Bromofluorobenzene	96		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/04/23 05:21
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07,11-12 Batch: WG1775035-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
4-Bromofluorobenzene	98		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/06/23 06:25
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 08,10 Batch: WG1776104-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
4-Bromofluorobenzene	97		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/06/23 06:25
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1776110-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/06/23 06:25
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1776110-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/06/23 06:25
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1776110-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	116		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/06/23 06:32
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,11 Batch: WG1776126-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/06/23 06:32
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,11 Batch: WG1776126-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/06/23 06:32
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,11 Batch: WG1776126-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	107		70-130

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/08/23 06:05
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08,10,12 Batch: WG1776609-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/08/23 06:05
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08,10,12 Batch: WG1776609-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/08/23 06:05
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08,10,12 Batch: WG1776609-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	111		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2323142

Report Date: 05/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07,11-12 Batch: WG1775035-3 WG1775035-4								
1,4-Dioxane	110		110		70-130	0		25
1,1,2,2-Tetrachloroethane	96		98		70-130	2		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		109		70-130
4-Bromofluorobenzene	94		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2323142

Report Date: 05/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 08,10 Batch: WG1776104-3 WG1776104-4								
1,4-Dioxane	110		120		70-130	9		25
1,1,2,2-Tetrachloroethane	112		113		70-130	1		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	118		118		70-130
4-Bromofluorobenzene	95		95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2323142

Report Date: 05/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1776110-3 WG1776110-4								
Dichlorodifluoromethane	100		100		36-147	0		20
Chloromethane	79		79		64-130	0		20
Vinyl chloride	97		100		55-140	3		20
Bromomethane	80		82		39-139	2		20
Chloroethane	110		100		55-138	10		20
Trichlorofluoromethane	100		100		62-150	0		20
1,1-Dichloroethene	85		87		61-145	2		20
Carbon disulfide	92		89		51-130	3		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		92		70-130	2		20
Methylene chloride	92		89		70-130	3		20
Acetone	86		86		58-148	0		20
trans-1,2-Dichloroethene	89		91		70-130	2		20
Methyl Acetate	90		89		70-130	1		20
Methyl tert butyl ether	83		86		63-130	4		20
1,1-Dichloroethane	96		94		70-130	2		20
cis-1,2-Dichloroethene	92		92		70-130	0		20
Cyclohexane	88		89		70-130	1		20
Bromochloromethane	100		100		70-130	0		20
Chloroform	100		97		70-130	3		20
Carbon tetrachloride	100		98		63-132	2		20
1,1,1-Trichloroethane	98		98		67-130	0		20
2-Butanone	95		92		63-138	3		20
Benzene	95		94		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2323142

Report Date: 05/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1776110-3 WG1776110-4								
1,2-Dichloroethane	99		96		70-130	3		20
Methyl cyclohexane	91		90		70-130	1		20
Trichloroethene	99		100		70-130	1		20
1,2-Dichloropropane	93		92		70-130	1		20
Bromodichloromethane	100		98		67-130	2		20
cis-1,3-Dichloropropene	88		88		70-130	0		20
Toluene	97		98		70-130	1		20
Tetrachloroethene	99		99		70-130	0		20
4-Methyl-2-pentanone	79		83		59-130	5		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Dibromochloromethane	99		98		63-130	1		20
1,2-Dibromoethane	98		97		70-130	1		20
2-Hexanone	78		80		57-130	3		20
Chlorobenzene	99		99		75-130	0		20
Ethylbenzene	98		99		70-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
Styrene	105		105		70-130	0		20
Bromoform	92		92		54-136	0		20
Isopropylbenzene	86		89		70-130	3		20
1,3,5-Trimethylbenzene	90		94		64-130	4		20
1,2,4-Trimethylbenzene	89		91		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1776110-3 WG1776110-4								
1,3-Dichlorobenzene	97		98		70-130	1		20
1,4-Dichlorobenzene	94		95		70-130	1		20
1,2-Dichlorobenzene	92		95		70-130	3		20
1,2-Dibromo-3-chloropropane	84		85		41-144	1		20
1,2,4-Trichlorobenzene	75		79		70-130	5		20
Naphthalene	72		76		70-130	5		20
1,2,3-Trichlorobenzene	80		83		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		99		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	91		93		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2323142
Report Date: 05/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,11 Batch: WG1776126-3 WG1776126-4								
Dichlorodifluoromethane	94		91		36-147	3		20
Chloromethane	84		84		64-130	0		20
Vinyl chloride	88		90		55-140	2		20
Bromomethane	**140**	Q	130		39-139	7		20
Chloroethane	120		110		55-138	9		20
Trichlorofluoromethane	100		100		62-150	0		20
1,1-Dichloroethene	110		110		61-145	0		20
Carbon disulfide	98		98		51-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		70-130	0		20
Methylene chloride	95		100		70-130	5		20
Acetone	120		120		58-148	0		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Methyl Acetate	81		83		70-130	2		20
Methyl tert butyl ether	95		99		63-130	4		20
1,1-Dichloroethane	98		97		70-130	1		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Cyclohexane	95		95		70-130	0		20
Bromochloromethane	110		110		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
2-Butanone	91		96		63-138	5		20
Benzene	100		99		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2323142

Report Date: 05/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,11 Batch: WG1776126-3 WG1776126-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichloropropane	93		96		70-130	3		20
Bromodichloromethane	100		100		67-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Toluene	97		96		70-130	1		20
Tetrachloroethene	110		110		70-130	0		20
4-Methyl-2-pentanone	88		90		59-130	2		20
trans-1,3-Dichloropropene	94		93		70-130	1		20
1,1,2-Trichloroethane	95		95		70-130	0		20
Dibromochloromethane	98		98		63-130	0		20
1,2-Dibromoethane	100		100		70-130	0		20
2-Hexanone	86		87		57-130	1		20
Chlorobenzene	100		100		75-130	0		20
Ethylbenzene	100		100		70-130	0		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
Styrene	110		105		70-130	5		20
Bromoform	99		97		54-136	2		20
Isopropylbenzene	96		96		70-130	0		20
1,3,5-Trimethylbenzene	99		98		64-130	1		20
1,2,4-Trimethylbenzene	100		97		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,11 Batch: WG1776126-3 WG1776126-4								
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	100		100		41-144	0		20
1,2,4-Trichlorobenzene	110		110		70-130	0		20
Naphthalene	100		100		70-130	0		20
1,2,3-Trichlorobenzene	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	96		94		70-130
4-Bromofluorobenzene	92		90		70-130
Dibromofluoromethane	104		108		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2323142

Report Date: 05/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08,10,12 Batch: WG1776609-3 WG1776609-4								
Dichlorodifluoromethane	86		87		36-147	1		20
Chloromethane	81		82		64-130	1		20
Vinyl chloride	120		130		55-140	8		20
Bromomethane	110		110		39-139	0		20
Chloroethane	110		110		55-138	0		20
Trichlorofluoromethane	110		120		62-150	9		20
1,1-Dichloroethene	100		110		61-145	10		20
Carbon disulfide	97		100		51-130	3		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		120		70-130	9		20
Methylene chloride	94		100		70-130	6		20
Acetone	110		110		58-148	0		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Methyl Acetate	82		90		70-130	9		20
Methyl tert butyl ether	95		98		63-130	3		20
1,1-Dichloroethane	97		99		70-130	2		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Cyclohexane	95		98		70-130	3		20
Bromochloromethane	100		110		70-130	10		20
Chloroform	99		100		70-130	1		20
Carbon tetrachloride	110		110		63-132	0		20
1,1,1-Trichloroethane	100		110		67-130	10		20
2-Butanone	81		84		63-138	4		20
Benzene	98		100		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2323142

Report Date: 05/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08,10,12 Batch: WG1776609-3 WG1776609-4								
1,2-Dichloroethane	95		100		70-130	5		20
Methyl cyclohexane	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichloropropane	93		94		70-130	1		20
Bromodichloromethane	100		100		67-130	0		20
cis-1,3-Dichloropropene	95		97		70-130	2		20
Toluene	99		98		70-130	1		20
Tetrachloroethene	110		110		70-130	0		20
4-Methyl-2-pentanone	81		86		59-130	6		20
trans-1,3-Dichloropropene	95		92		70-130	3		20
1,1,2-Trichloroethane	98		90		70-130	9		20
Dibromochloromethane	100		97		63-130	3		20
1,2-Dibromoethane	96		92		70-130	4		20
2-Hexanone	74		80		57-130	8		20
Chlorobenzene	99		100		75-130	1		20
Ethylbenzene	98		100		70-130	2		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		105		70-130	5		20
Styrene	105		105		70-130	0		20
Bromoform	96		92		54-136	4		20
Isopropylbenzene	93		92		70-130	1		20
1,3,5-Trimethylbenzene	98		96		64-130	2		20
1,2,4-Trimethylbenzene	99		96		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08,10,12 Batch: WG1776609-3 WG1776609-4								
1,3-Dichlorobenzene	99		100		70-130	1		20
1,4-Dichlorobenzene	100		100		70-130	0		20
1,2-Dichlorobenzene	99		100		70-130	1		20
1,2-Dibromo-3-chloropropane	94		95		41-144	1		20
1,2,4-Trichlorobenzene	110		110		70-130	0		20
Naphthalene	99		96		70-130	3		20
1,2,3-Trichlorobenzene	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		101		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	90		91		70-130
Dibromofluoromethane	104		106		70-130

METALS

Project Name: ALLIANCE 51ST ST
Lab Number: L2323142
Project Number: 30108678
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-01
Client ID: MW-1
Sample Location: PHILA, PA
Date Collected: 04/28/23 08:55
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	05/10/23 22:45	05/11/23 09:56	EPA 3005A	1,6020B	SMV

Project Name: ALLIANCE 51ST ST
Lab Number: L2323142
Project Number: 30108678
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-02
Client ID: MW-2
Sample Location: PHILA, PA
Date Collected: 04/28/23 08:30
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	05/10/23 22:45	05/11/23 09:37	EPA 3005A	1,6020B	SMV

Project Name: ALLIANCE 51ST ST
Lab Number: L2323142
Project Number: 30108678
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-03
Client ID: MW-3
Sample Location: PHILA, PA
Date Collected: 04/28/23 08:10
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	05/10/23 22:45	05/11/23 10:39	EPA 3005A	1,6020B	SMV

Project Name: ALLIANCE 51ST ST
Lab Number: L2323142
Project Number: 30108678
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-04
Client ID: MW-4
Sample Location: PHILA, PA
Date Collected: 04/28/23 09:45
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.4398	J	ug/l	1.000	0.3430	1	05/10/23 22:45	05/11/23 10:43	EPA 3005A	1,6020B	SMV

Project Name: ALLIANCE 51ST ST
Lab Number: L2323142
Project Number: 30108678
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-05
Client ID: MW-5
Sample Location: PHILA, PA
Date Collected: 04/28/23 10:05
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	05/10/23 22:45	05/11/23 10:48	EPA 3005A	1,6020B	SMV

Project Name: ALLIANCE 51ST ST
Lab Number: L2323142
Project Number: 30108678
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-06
Client ID: MW-7
Sample Location: PHILA, PA
Date Collected: 04/28/23 09:20
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	05/10/23 22:45	05/11/23 10:53	EPA 3005A	1,6020B	SMV

Project Name: ALLIANCE 51ST ST
Lab Number: L2323142
Project Number: 30108678
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-07
Client ID: MW-8
Sample Location: PHILA, PA
Date Collected: 04/28/23 11:00
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	05/10/23 22:45	05/11/23 10:58	EPA 3005A	1,6020B	SMV

Project Name: ALLIANCE 51ST ST
Lab Number: L2323142
Project Number: 30108678
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-08
Client ID: MW-9
Sample Location: PHILA, PA
Date Collected: 04/28/23 10:25
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	21.75		ug/l	1.000	0.3430	1	05/10/23 22:45	05/11/23 11:02	EPA 3005A	1,6020B	SMV

Project Name: ALLIANCE 51ST ST
Lab Number: L2323142
Project Number: 30108678
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-09
Client ID: MW-9FF
Sample Location: PHILA, PA
Date Collected: 04/28/23 10:25
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	21.27		ug/l	1.000	0.3430	1	05/10/23 22:45	05/11/23 11:26	EPA 3005A	1,6020B	SMV

Project Name: ALLIANCE 51ST ST
Lab Number: L2323142
Project Number: 30108678
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-10
Client ID: DUP-1
Sample Location: PHILA, PA
Date Collected: 04/28/23 00:00
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	05/10/23 22:45	05/11/23 11:31	EPA 3005A	1,6020B	SMV

Project Name: ALLIANCE 51ST ST
Lab Number: L2323142
Project Number: 30108678
Report Date: 05/12/23

SAMPLE RESULTS

Lab ID: L2323142-11
Client ID: FIELD BLANK
Sample Location: PHILA, PA
Date Collected: 04/28/23 11:10
Date Received: 04/28/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	05/10/23 22:45	05/11/23 10:24	EPA 3005A	1,6020B	SMV

Project Name: ALLIANCE 51ST ST
Project Number: 30108678
Lab Number: L2323142
Report Date: 05/12/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1773893-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	05/10/23 22:45	05/11/23 10:19	1,6020B	SMV

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2323142

Report Date: 05/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1773893-2								
Lead, Dissolved	96		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2323142
Report Date: 05/12/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1773893-3 QC Sample: L2323142-01 Client ID: MW-1												
Lead, Dissolved	ND	530	510.7	96		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678

Lab Number: L2323142

Report Date: 05/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1773893-4 QC Sample: L2323142-01 Client ID: MW-1						
Lead, Dissolved	ND	ND	ug/l	NC		20

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2323142
Report Date: 05/12/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2323142-01A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-01B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-01C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-01D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2323142-02A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-02B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-02C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-02D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2323142-03A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-03B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-03C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-03D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2323142-04A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-04B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-04C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-04D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2323142-05A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-05B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-05C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-05D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2323142-06A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-06B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-06C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST ST
Project Number: 30108678

Lab Number: L2323142
Report Date: 05/12/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2323142-06D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2323142-07A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-07B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-07C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-07D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2323142-08A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-08B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-08C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-08D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2323142-09A	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2323142-10A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-10B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-10C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-10D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2323142-11A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-11B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-11C	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-11D	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		PB-6020S-PPB(180)
L2323142-12A	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2323142-12B	Vial HCl preserved	A	NA		2.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2323142
Project Number:	30108678	**Report Date:**	05/12/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2323142
Project Number:	30108678	**Report Date:**	05/12/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2323142
Project Number:	30108678	**Report Date:**	05/12/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2323142
Project Number:	30108678	**Report Date:**	05/12/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/28/23

ALPHA Job #: L2323142

Client Information

Client: Arcadis
Address: 1 Hunnard Way Ste 5
Hillsborough NJ
Phone: 908-526-1550
Fax:
Email: Lanny.brant@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Allimite Site SL
Project Location: ~~Belleville~~ Phil, PA
Project #: 30108678
Project Manager: Lanny Brant
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:
Include Map, 1,2,4 TMB, 1,25 TMB

ANALYSIS: VOC +IC; Dissolved Lead

SAMPLE HANDLING
Filtration
☒ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC +IC	Dissolved Lead	Sample Specific Comments	TOTAL # BOTTLES
23142-01	MW-1	4/28/23	845	AQ	MH/KH	Y	X		
-02	MW-2		830			Y	X		
-03	MW-3		810			Y	X		
-04	MW-4		945			Y	X		
-05	MW-5		1055			Y	X		
-06	MW-7		920			Y	X		
-07	MW-8		1100			Y	X		
-08	MW-9		1035			Y	X		
-09	MW-DUP		1034			~~Y~~	X	MS/MSD	
-10	Rinse-1	↓	X	↓	↓	Y	X		

Container Type	Air	P
Preservative	R	

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilyk	4/28/23 1153	[illegible] ARL	04.28.23 1153
[illegible] ARL	04.28.23 1530	[illegible] ARL	4/28/23 1530
[illegible] ARL	4/28/23	[illegible]	4/28/23 19:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

4/28/23 2345

FORM NO: 01-05 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/28/23

ALPHA Job #: L2323142

Client Information

Client: Arcadis
Address: 1 Harvard Mill Sq Ste 1
Williamsburg MA
Phone: 908-526-1111
Fax:
Email: Larry.Brink@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Allium Site 12
Project Location: Philly, PA
Project #: 30108676
Project Manager: Larry Brink
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Include MW1, 1,2,4 TMB 1,2,5 TMB

ANALYSIS: VOC + IC, Acrolein Lead

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	IC	Acrolein	Lead	Sample Specific Comments	TOTAL # BOTTLES
23142-11	Field Blank	4/26/23	1110	AQ	MH	X	X				4
-12	Trip Blank	4/27/23	Y	AQ	MH	X					3

Container Type	A/V	P													
Preservative	R	C													

Relinquished By:	Date/Time	Received By:	Date/Time
Mark Hibbert	4/28/23 1153	[illegible] AAL	4/28/23 1153
[illegible] AAL	4/28/23 1530	[illegible] AAL	4/28/23 1530
	4/28/23		4/28/23 19:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

4/28/23 2345

FORM NO: 01-07 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L2340838
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678
Report Date:	08/04/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2340838
Report Date: 08/04/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2340838-01	MW-3	WATER	1646 S 51ST STREET, PHILADELPHIA	07/17/23 12:20	07/17/23
L2340838-02	MW-8	WATER	1646 S 51ST STREET, PHILADELPHIA	07/17/23 12:15	07/17/23
L2340838-03	MW-5	WATER	1646 S 51ST STREET, PHILADELPHIA	07/17/23 11:15	07/17/23
L2340838-04	MW-2	WATER	1646 S 51ST STREET, PHILADELPHIA	07/17/23 10:50	07/17/23
L2340838-05	MW-9	WATER	1646 S 51ST STREET, PHILADELPHIA	07/17/23 10:30	07/17/23
L2340838-06	MW-1	WATER	1646 S 51ST STREET, PHILADELPHIA	07/17/23 09:50	07/17/23
L2340838-07	MW-4	WATER	1646 S 51ST STREET, PHILADELPHIA	07/17/23 09:50	07/17/23
L2340838-08	FIELD BLANK	WATER	1646 S 51ST STREET, PHILADELPHIA	07/17/23 12:00	07/17/23
L2340838-09	TRIP BLANK	WATER	1646 S 51ST STREET, PHILADELPHIA	07/14/23 00:00	07/17/23
L2340838-10	DUP-1	WATER	1646 S 51ST STREET, PHILADELPHIA	07/17/23 00:00	07/17/23

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2340838
Project Number:	30108678	**Report Date:**	08/04/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2340838
Project Number:	30108678	**Report Date:**	08/04/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2340838-05 and -07: The pH was greater than two; however, the sample was analyzed within the method required holding time.

L2340838-05: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (58%), possibly due to the matrix effect caused by the high pH of the sample (>10).

Volatile Organics by SIM

L2340838-05 and -07: The pH was greater than two; however, the sample was analyzed within the method required holding time.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 08/04/23

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-01
Client ID: MW-3
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 12:20
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/20/23 08:10
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.16	J	ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-01 Date Collected: 07/17/23 12:20

Client ID: MW-3 Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	96		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-01
Client ID: MW-3
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 12:20
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/20/23 08:10
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-02
Client ID: MW-8
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 12:15
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/20/23 08:37
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	3.3	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	4.1	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-02 Date Collected: 07/17/23 12:15

Client ID: MW-8 Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.20	J	ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	13		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.51	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	0.30	J	ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	88		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-02
Client ID: MW-8
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 12:15
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/20/23 08:37
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
4-Bromofluorobenzene	93		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-03 Date Collected: 07/17/23 11:15

Client ID: MW-5 Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/20/23 09:32

Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-03 Date Collected: 07/17/23 11:15

Client ID: MW-5 Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	98		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-03
Client ID: MW-5
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 11:15
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/20/23 09:32
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-04
Client ID: MW-2
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 10:50
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/20/23 11:51
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	2.2		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	3.5	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	3.0		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	3.4	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-04 Date Collected: 07/17/23 10:50

Client ID: MW-2 Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.6		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.45	J	ug/l	0.50	0.17	1
p/m-Xylene	2.3		ug/l	1.0	0.33	1
o-Xylene	4.8		ug/l	1.0	0.39	1
Xylenes, Total	7.1		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.42	J	ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	4.6		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	3.7		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	7.4		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-04
Client ID: MW-2
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 10:50
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/20/23 11:51
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
4-Bromofluorobenzene	91		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-05 Date Collected: 07/17/23 10:30
Client ID: MW-9 Date Received: 07/17/23
Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/20/23 10:00
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	84		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	0.31	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	8.5		ug/l	5.0	1.9	1
Benzene	1.3		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	2.8	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-05 Date Collected: 07/17/23 10:30

Client ID: MW-9 Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	10		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	1.4	J	ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	9.0		ug/l	0.50	0.17	1
p/m-Xylene	59		ug/l	1.0	0.33	1
o-Xylene	47		ug/l	1.0	0.39	1
Xylenes, Total	110		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	4.8		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	37		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	96		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	62		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	**58**	Q	70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-05
Client ID: MW-9
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 10:30
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/20/23 10:00
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
4-Bromofluorobenzene	92		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-06
Client ID: MW-1
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 09:50
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/20/23 10:28
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	9.7	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.75		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	9.4	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-06 Date Collected: 07/17/23 09:50

Client ID: MW-1 Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.82		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	2.2		ug/l	1.0	0.33	1
o-Xylene	0.70	J	ug/l	1.0	0.39	1
Xylenes, Total	2.9	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	1.9		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	0.24	J	ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.45	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	78		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	75		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-06
Client ID: MW-1
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 09:50
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/20/23 10:28
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	77		70-130
4-Bromofluorobenzene	99		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-07 Date Collected: 07/17/23 09:50

Client ID: MW-4 Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/20/23 10:55

Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	7.9		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-07 Date Collected: 07/17/23 09:50

Client ID: MW-4 Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	94		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-07
Client ID: MW-4
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 09:50
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/20/23 10:55
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-08
Client ID: FIELD BLANK
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 12:00
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/20/23 07:42
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-08 Date Collected: 07/17/23 12:00

Client ID: FIELD BLANK Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	96		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-08
Client ID: FIELD BLANK
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 12:00
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/20/23 07:42
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
4-Bromofluorobenzene	91		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-09 Date Collected: 07/14/23 00:00

Client ID: TRIP BLANK Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/20/23 07:14

Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	2.1	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-09 Date Collected: 07/14/23 00:00

Client ID: TRIP BLANK Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-09
Client ID: TRIP BLANK
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/14/23 00:00
Date Received: 07/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/20/23 07:14
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
4-Bromofluorobenzene	91		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-10 Date Collected: 07/17/23 00:00

Client ID: DUP-1 Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 07/20/23 11:23

Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-10 Date Collected: 07/17/23 00:00

Client ID: DUP-1 Date Received: 07/17/23

Sample Location: 1646 S 51ST STREET, PHILADELPHIA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-10
Client ID: DUP-1
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 00:00
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/20/23 11:23
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/20/23 06:19
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1805849-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/20/23 06:19
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1805849-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/20/23 06:19
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1805849-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	95		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2340838

Project Number: 30108678 **Report Date:** 08/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/20/23 06:19
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-10 Batch: WG1805851-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
4-Bromofluorobenzene	91		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2340838

Report Date: 08/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1805849-3 WG1805849-4								
Dichlorodifluoromethane	110		110		36-147	0		20
Chloromethane	89		88		64-130	1		20
Vinyl chloride	100		100		55-140	0		20
Bromomethane	80		87		39-139	8		20
Chloroethane	85		81		55-138	5		20
Trichlorofluoromethane	90		92		62-150	2		20
1,1-Dichloroethene	98		97		61-145	1		20
Carbon disulfide	90		91		51-130	1		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		99		70-130	1		20
Methylene chloride	90		93		70-130	3		20
Acetone	97		100		58-148	3		20
trans-1,2-Dichloroethene	97		96		70-130	1		20
Methyl Acetate	98		100		70-130	2		20
Methyl tert butyl ether	99		98		63-130	1		20
1,1-Dichloroethane	94		92		70-130	2		20
cis-1,2-Dichloroethene	92		93		70-130	1		20
Cyclohexane	95		94		70-130	1		20
Bromochloromethane	100		100		70-130	0		20
Chloroform	92		91		70-130	1		20
Carbon tetrachloride	96		96		63-132	0		20
1,1,1-Trichloroethane	99		96		67-130	3		20
2-Butanone	85		88		63-138	3		20
Benzene	92		92		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2340838
Report Date: 08/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1805849-3 WG1805849-4								
1,2-Dichloroethane	96		98		70-130	2		20
Methyl cyclohexane	96		96		70-130	0		20
Trichloroethene	94		95		70-130	1		20
1,2-Dichloropropane	91		89		70-130	2		20
Bromodichloromethane	89		92		67-130	3		20
cis-1,3-Dichloropropene	88		90		70-130	2		20
Toluene	100		100		70-130	0		20
Tetrachloroethene	120		120		70-130	0		20
4-Methyl-2-pentanone	91		89		59-130	2		20
trans-1,3-Dichloropropene	97		100		70-130	3		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Dibromochloromethane	99		100		63-130	1		20
1,2-Dibromoethane	100		100		70-130	0		20
2-Hexanone	90		91		57-130	1		20
Chlorobenzene	100		99		75-130	1		20
Ethylbenzene	100		100		70-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
Styrene	100		100		70-130	0		20
Bromoform	95		97		54-136	2		20
Isopropylbenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2340838
Report Date: 08/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1805849-3 WG1805849-4								
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	95		98		41-144	3		20
1,2,4-Trichlorobenzene	110		110		70-130	0		20
Naphthalene	100		100		70-130	0		20
1,2,3-Trichlorobenzene	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		87		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	94		96		70-130
Dibromofluoromethane	88		88		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2340838

Report Date: 08/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 Batch: WG1805851-3 WG1805851-4								
1,4-Dioxane	93		100		70-130	7		25
1,1,2,2-Tetrachloroethane	92		86		70-130	7		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		90		70-130
4-Bromofluorobenzene	91		90		70-130

METALS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-01
Client ID: MW-3
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Sample Depth:
Matrix: Water

Date Collected: 07/17/23 12:20
Date Received: 07/17/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/18/23 20:06	08/03/23 17:31	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-02
Client ID: MW-8
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Sample Depth:
Matrix: Water

Date Collected: 07/17/23 12:15
Date Received: 07/17/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/18/23 20:06	08/03/23 17:36	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-03
Client ID: MW-5
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Sample Depth:
Matrix: Water

Date Collected: 07/17/23 11:15
Date Received: 07/17/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/18/23 20:06	08/03/23 17:40	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-04
Client ID: MW-2
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Sample Depth:
Matrix: Water

Date Collected: 07/17/23 10:50
Date Received: 07/17/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/18/23 20:06	08/03/23 17:45	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-05
Client ID: MW-9
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Sample Depth:
Matrix: Water

Date Collected: 07/17/23 10:30
Date Received: 07/17/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	21.08		ug/l	1.000	0.3430	1	07/18/23 20:06	08/03/23 18:09	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-06
Client ID: MW-1
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Sample Depth:
Matrix: Water

Date Collected: 07/17/23 09:50
Date Received: 07/17/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/18/23 20:06	08/03/23 18:13	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-07
Client ID: MW-4
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Sample Depth:
Matrix: Water

Date Collected: 07/17/23 09:50
Date Received: 07/17/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.5149	J	ug/l	1.000	0.3430	1	07/18/23 20:06	08/03/23 18:17	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-08
Client ID: FIELD BLANK
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Date Collected: 07/17/23 12:00
Date Received: 07/17/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/18/23 20:06	08/03/23 18:04	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

SAMPLE RESULTS

Lab ID: L2340838-10
Client ID: DUP-1
Sample Location: 1646 S 51ST STREET, PHILADELPHIA
Sample Depth:
Matrix: Water

Date Collected: 07/17/23 00:00
Date Received: 07/17/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/18/23 20:06	08/03/23 18:22	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2340838
Report Date: 08/04/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-08,10 Batch: WG1804596-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/18/23 20:06	08/03/23 17:09	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2340838

Report Date: 08/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08,10 Batch: WG1804596-2								
Lead, Dissolved	105		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2340838
Report Date: 08/04/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08,10 QC Batch ID: WG1804596-3 QC Sample: L2340838-01 Client ID: MW-3												
Lead, Dissolved	ND	530	532.6	100		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2340838

Report Date: 08/04/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08,10 QC Batch ID: WG1804596-4 QC Sample: L2340838-01 Client ID: MW-3						
Lead, Dissolved	ND	ND	ug/l	NC		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2340838
Report Date: 08/04/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2340838-01A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-01B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-01C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-01D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2340838-02A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-02B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-02C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-02D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2340838-03A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-03B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-03C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-03D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2340838-04A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-04B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-04C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-04D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2340838-05A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-05B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-05C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-05D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2340838-06A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-06B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-06C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2340838
Report Date: 08/04/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2340838-06D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2340838-07A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-07B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-07C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-07D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2340838-08A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-08B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-08C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-08D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)
L2340838-09A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-09B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-10A	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-10B	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-10C	Vial HCl preserved	A	NA		3.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2340838-10D	Plastic 250ml HNO3 preserved	A	<2	<2	3.2	Y	Absent		PB-6020S-PPB(180)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2340838
Project Number:	30108678	**Report Date:**	08/04/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2340838
Project Number:	30108678	**Report Date:**	08/04/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2340838
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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2340838
Project Number:	30108678	**Report Date:**	08/04/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/18/23

ALPHA Job #: L2340838

Client Information

Client: Arcadis US Inc
Address: 1 Harvard Way Suite 5
Hillsborough NJ 08844
Phone: 908-526-1000
Fax:
Email: Larry.Brunt@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance 51st street
Project Location: 1646 51st Street, Philadelphia
Project #: 30108678
Project Manager: Larry Brunt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:
include 1,2,3 TMB; NAP

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: VOCs	Dissolved Metals* field filtered	Sample Specific Comments	TOTAL # BOTTLES
40838-01	MW-3	7/17/2023	1220	AQ	KH, MH	X	X		4
-02	MW-8		1215			X	X		4
-03	MW-5		1115			X	X		4
-04	MW-2		1050			X	X		4
-05	MW-9		1030			X	X		4
-06	MW-1		0950			X	X		4
-07	MW-4		0950			X	X		4
-08	Field Blank		1200			X	X		4
-09	Trip Blank	7/14/2023	—			X			2
-10	DUP-1	7/17/2023	—	AQ	KH, MH	X	X		4

SAMPLE HANDLING
Filtration
☑ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	V	P
Preservative	B	C

Relinquished By:	Date/Time	Received By:	Date/Time
Mike Kilfoyle	7/17/23 1520		7/17/23 15:21
	7/17/23 1800	ARL	7/17/23 1800
ARL	7/17/23 2300		7/17 2400

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: ALC-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L2343291
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678
Report Date:	08/10/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2343291
Report Date: 08/10/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2343291-01	MW-7	WATER	51ST STREET, PHILADELPHIA	07/27/23 09:50	07/27/23
L2343291-02	TB	WATER	51ST STREET, PHILADELPHIA	07/26/23 00:00	07/27/23

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2343291
Project Number:	30108678	**Report Date:**	08/10/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2343291
Project Number:	30108678	**Report Date:**	08/10/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Dissolved Metals

L2343291-01: The sample has an elevated detection limit for lead due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 08/10/23

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2343291
Report Date: 08/10/23

SAMPLE RESULTS

Lab ID: L2343291-01
Client ID: MW-7
Sample Location: 51ST STREET, PHILADELPHIA
Date Collected: 07/27/23 09:50
Date Received: 07/27/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/07/23 10:20
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	19		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.39	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	6.2	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	33		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.50		ug/l	0.50	0.13	1
Methyl cyclohexane	6.5	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2343291
Report Date: 08/10/23

SAMPLE RESULTS

Lab ID: L2343291-01
Client ID: MW-7
Sample Location: 51ST STREET, PHILADELPHIA
Date Collected: 07/27/23 09:50
Date Received: 07/27/23
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	6.2		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	3.0		ug/l	0.50	0.17	1
p/m-Xylene	6.2		ug/l	1.0	0.33	1
o-Xylene	2.2		ug/l	1.0	0.39	1
Xylenes, Total	8.4		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	1.0		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	4.0		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	9.3		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	2.7		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2343291
Report Date: 08/10/23

SAMPLE RESULTS

Lab ID: L2343291-01
Client ID: MW-7
Sample Location: 51ST STREET, PHILADELPHIA
Date Collected: 07/27/23 09:50
Date Received: 07/27/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 08/07/23 10:20
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
4-Bromofluorobenzene	98		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2343291

Project Number: 30108678 **Report Date:** 08/10/23

SAMPLE RESULTS

Lab ID: L2343291-02 Date Collected: 07/26/23 00:00
Client ID: TB Date Received: 07/27/23
Sample Location: 51ST STREET, PHILADELPHIA Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/07/23 14:46
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	2.2	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2343291

Project Number: 30108678 **Report Date:** 08/10/23

SAMPLE RESULTS

Lab ID: L2343291-02 Date Collected: 07/26/23 00:00

Client ID: TB Date Received: 07/27/23

Sample Location: 51ST STREET, PHILADELPHIA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.23	J	ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2343291
Report Date: 08/10/23

SAMPLE RESULTS

Lab ID: L2343291-02
Client ID: TB
Sample Location: 51ST STREET, PHILADELPHIA
Date Collected: 07/26/23 00:00
Date Received: 07/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 08/07/23 14:46
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
4-Bromofluorobenzene	95		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2343291

Project Number: 30108678 **Report Date:** 08/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/07/23 09:55
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1813073-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2343291

Project Number: 30108678 **Report Date:** 08/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/07/23 09:55
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1813073-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2343291
Report Date: 08/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/07/23 09:55
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1813073-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2343291

Project Number: 30108678 **Report Date:** 08/10/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 08/07/23 09:55
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG1813094-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
4-Bromofluorobenzene	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2343291

Report Date: 08/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1813073-3 WG1813073-4								
Dichlorodifluoromethane	89		89		36-147	0		20
Chloromethane	99		100		64-130	1		20
Vinyl chloride	82		82		55-140	0		20
Bromomethane	76		81		39-139	6		20
Chloroethane	77		77		55-138	0		20
Trichlorofluoromethane	69		68		62-150	1		20
1,1-Dichloroethene	110		100		61-145	10		20
Carbon disulfide	120		110		51-130	9		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		70-130	0		20
Methylene chloride	100		100		70-130	0		20
Acetone	93		91		58-148	2		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Methyl Acetate	110		110		70-130	0		20
Methyl tert butyl ether	96		97		63-130	1		20
1,1-Dichloroethane	120		120		70-130	0		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Cyclohexane	120		120		70-130	0		20
Bromochloromethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
2-Butanone	100		100		63-138	0		20
Benzene	110		110		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2343291
Report Date: 08/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1813073-3 WG1813073-4								
1,2-Dichloroethane	110		110		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20
Trichloroethene	100		97		70-130	3		20
1,2-Dichloropropane	110		110		70-130	0		20
Bromodichloromethane	110		100		67-130	10		20
cis-1,3-Dichloropropene	110		100		70-130	10		20
Toluene	100		99		70-130	1		20
Tetrachloroethene	99		98		70-130	1		20
4-Methyl-2-pentanone	86		87		59-130	1		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
1,1,2-Trichloroethane	92		93		70-130	1		20
Dibromochloromethane	92		92		63-130	0		20
1,2-Dibromoethane	91		91		70-130	0		20
2-Hexanone	81		81		57-130	0		20
Chlorobenzene	97		97		75-130	0		20
Ethylbenzene	100		99		70-130	1		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	95		95		70-130	0		20
Styrene	95		95		70-130	0		20
Bromoform	82		83		54-136	1		20
Isopropylbenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	96		97		64-130	1		20
1,2,4-Trimethylbenzene	99		100		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2343291
Report Date: 08/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1813073-3 WG1813073-4								
1,3-Dichlorobenzene	92		92		70-130	0		20
1,4-Dichlorobenzene	91		90		70-130	1		20
1,2-Dichlorobenzene	88		88		70-130	0		20
1,2-Dibromo-3-chloropropane	76		76		41-144	0		20
1,2,4-Trichlorobenzene	87		88		70-130	1		20
Naphthalene	82		84		70-130	2		20
1,2,3-Trichlorobenzene	83		83		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	101		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2343291

Report Date: 08/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG1813094-3 WG1813094-4								
1,4-Dioxane	91		91		70-130	0		25
1,1,2,2-Tetrachloroethane	98		105		70-130	7		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		92		70-130
4-Bromofluorobenzene	97		97		70-130

METALS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2343291
Report Date: 08/10/23

SAMPLE RESULTS

Lab ID: L2343291-01
Client ID: MW-7
Sample Location: 51ST STREET, PHILADELPHIA
Sample Depth:
Matrix: Water

Date Collected: 07/27/23 09:50
Date Received: 07/27/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	5.000	1.715	5	07/31/23 23:26	08/10/23 07:20	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2343291
Report Date: 08/10/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG1809092-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/31/23 23:26	08/03/23 07:00	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2343291

Report Date: 08/10/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1809092-2								
Lead, Dissolved	108		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2343291
Report Date: 08/10/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1809092-3 WG1809092-4 QC Sample: L2343532-04 Client ID: MS Sample												
Lead, Dissolved	ND	1060	1050	99		1023	96		75-125	3		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2343291
Report Date: 08/10/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2343291-01A	Vial HCl preserved	A	NA		4.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2343291-01B	Vial HCl preserved	A	NA		4.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2343291-01C	Vial HCl preserved	A	NA		4.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2343291-01D	Plastic 250ml HNO3 preserved	A	<2	<2	4.2	Y	Absent		PB-6020S-PPB(180)
L2343291-02A	Vial HCl preserved	A	NA		4.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2343291-02B	Vial HCl preserved	A	NA		4.2	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2343291
Project Number:	30108678	**Report Date:**	08/10/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2343291
Project Number:	30108678	**Report Date:**	08/10/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2343291
Project Number:	30108678	**Report Date:**	08/10/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/27/23

ALPHA Job #: L2343291

Client Information

Client: Arcadis US Inc
Address: 1 Harvard Way Suite 5
Hillsborough NJ 08844
Phone: 908-526-1000
Fax:
Email: Larry.Brunt@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance 51st street
Project Location: 51st street, Philadelphia
Project #: 30108678
Project Manager: Larry Brunt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:
include 1,2,4 and 1,3,5 TMB and Nap

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	Dissolved Lead * Field Filtered										Sample Specific Comments	TOTAL # BOTTLES
43291-01	MW-7	7/27/23	0950	AQ	KH	X	X											4
-02	TB	7/26/23	-	AQ	MB	X												2

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do (Please specify below)

Container Type	V	P													
Preservative	B	C													

Relinquished By:	Date/Time	Received By:	Date/Time
Kristin Tallen	7/27/23 1250	Cindy Gallo	7/27/23 1250
Cindy Gallo	7/27/23 1510	Paul Mazzella	7/27/23 1615
Paul Mazzella	7/27/23		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L2358445
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678
Report Date:	10/18/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2358445
Report Date: 10/18/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2358445-01	MW-2	WATER	PHILADELPHIA, PA	10/03/23 10:10	10/04/23
L2358445-02	MW-3	WATER	PHILADELPHIA, PA	10/03/23 11:40	10/04/23
L2358445-03	MW-9	WATER	PHILADELPHIA, PA	10/03/23 13:50	10/04/23
L2358445-04	MW-4	WATER	PHILADELPHIA, PA	10/03/23 14:40	10/04/23
L2358445-05	MW-1	WATER	PHILADELPHIA, PA	10/03/23 10:10	10/04/23
L2358445-06	MW-7	WATER	PHILADELPHIA, PA	10/03/23 11:45	10/04/23
L2358445-07	MW-5	WATER	PHILADELPHIA, PA	10/03/23 13:25	10/04/23
L2358445-08	MW-8	WATER	PHILADELPHIA, PA	10/03/23 14:30	10/04/23
L2358445-09	DUP-1	WATER	PHILADELPHIA, PA	10/03/23 00:00	10/04/23
L2358445-10	FB(10032023)	WATER	PHILADELPHIA, PA	10/03/23 15:00	10/04/23
L2358445-11	TB(10022023)	WATER	PHILADELPHIA, PA	10/02/23 00:00	10/04/23

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2358445
Project Number:	30108678	**Report Date:**	10/18/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2358445
Project Number:	30108678	**Report Date:**	10/18/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

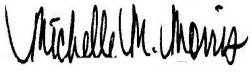
L2358445-03 and -04: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

L2358445-06 and -09: The acetone result should be considered estimated due to co-elution with a non-target compound.

Volatile Organics by SIM

L2358445-03 and -04: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Michelle M. Morris

Title: Technical Director/Representative Date: 10/18/23

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-01
Client ID: MW-2
Sample Location: PHILADELPHIA, PA

Date Collected: 10/03/23 10:10
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/16/23 15:59
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	2.2		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	3.2	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	3.3		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	4.1	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-01 Date Collected: 10/03/23 10:10

Client ID: MW-2 Date Received: 10/04/23

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.6		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.45	J	ug/l	0.50	0.17	1
p/m-Xylene	2.6		ug/l	1.0	0.33	1
o-Xylene	4.5		ug/l	1.0	0.39	1
Xylenes, Total	7.1		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.40	J	ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	4.4		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	3.5		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	8.0		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-01
Client ID: MW-2
Sample Location: PHILADELPHIA, PA

Date Collected: 10/03/23 10:10
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/16/23 15:59
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
4-Bromofluorobenzene	95		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-02
Client ID: MW-3
Sample Location: PHILADELPHIA, PA
Date Collected: 10/03/23 11:40
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/16/23 11:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	2.1	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-02 Date Collected: 10/03/23 11:40

Client ID: MW-3 Date Received: 10/04/23

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-02
Client ID: MW-3
Sample Location: PHILADELPHIA, PA

Date Collected: 10/03/23 11:40
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/16/23 11:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
4-Bromofluorobenzene	97		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-03
Client ID: MW-9
Sample Location: PHILADELPHIA, PA
Date Collected: 10/03/23 13:50
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/16/23 11:35
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	120		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	13		ug/l	5.0	1.9	1
Benzene	1.1		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	3.3	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-03 Date Collected: 10/03/23 13:50

Client ID: MW-9 Date Received: 10/04/23

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	12		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	0.83	J	ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	0.86	J	ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	11		ug/l	0.50	0.17	1
p/m-Xylene	73		ug/l	1.0	0.33	1
o-Xylene	61		ug/l	1.0	0.39	1
Xylenes, Total	130		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	5.4		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	38		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	110		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	72		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	72		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-03
Client ID: MW-9
Sample Location: PHILADELPHIA, PA

Date Collected: 10/03/23 13:50
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/16/23 11:35
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
4-Bromofluorobenzene	88		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-04 Date Collected: 10/03/23 14:40
Client ID: MW-4 Date Received: 10/04/23
Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/16/23 11:59
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	8.1		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-04 Date Collected: 10/03/23 14:40

Client ID: MW-4 Date Received: 10/04/23

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-04
Client ID: MW-4
Sample Location: PHILADELPHIA, PA

Date Collected: 10/03/23 14:40
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/16/23 11:59
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
4-Bromofluorobenzene	98		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-05 Date Collected: 10/03/23 10:10
Client ID: MW-1 Date Received: 10/04/23
Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/16/23 12:23
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	8.0	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	1.3		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	7.9	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-05 Date Collected: 10/03/23 10:10

Client ID: MW-1 Date Received: 10/04/23

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.1		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	2.6		ug/l	1.0	0.33	1
o-Xylene	0.67	J	ug/l	1.0	0.39	1
Xylenes, Total	3.3	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	1.1		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.40	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	93		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-05
Client ID: MW-1
Sample Location: PHILADELPHIA, PA

Date Collected: 10/03/23 10:10
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/16/23 12:23
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
4-Bromofluorobenzene	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-06
Client ID: MW-7
Sample Location: PHILADELPHIA, PA
Date Collected: 10/03/23 11:45
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/16/23 12:47
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	0.09	J	ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	22		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.95	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	11		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	64		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.72		ug/l	0.50	0.13	1
Methyl cyclohexane	8.2	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-06 Date Collected: 10/03/23 11:45

Client ID: MW-7 Date Received: 10/04/23

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	16		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	8.8		ug/l	0.50	0.17	1
p/m-Xylene	22		ug/l	1.0	0.33	1
o-Xylene	8.0		ug/l	1.0	0.39	1
Xylenes, Total	30		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	2.6		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	5.4		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	17		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	9.3		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-06
Client ID: MW-7
Sample Location: PHILADELPHIA, PA

Date Collected: 10/03/23 11:45
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/16/23 12:47
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
4-Bromofluorobenzene	98		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-07
Client ID: MW-5
Sample Location: PHILADELPHIA, PA
Date Collected: 10/03/23 13:25
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/16/23 13:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-07 Date Collected: 10/03/23 13:25

Client ID: MW-5 Date Received: 10/04/23

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-07
Client ID: MW-5
Sample Location: PHILADELPHIA, PA

Date Collected: 10/03/23 13:25
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/16/23 13:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
4-Bromofluorobenzene	97		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-08 Date Collected: 10/03/23 14:30
Client ID: MW-8 Date Received: 10/04/23
Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/16/23 13:35
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	2.0	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	3.4	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-08 Date Collected: 10/03/23 14:30

Client ID: MW-8 Date Received: 10/04/23

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	2.5		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	5.4		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.39	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-08
Client ID: MW-8
Sample Location: PHILADELPHIA, PA

Date Collected: 10/03/23 14:30
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/16/23 13:35
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
4-Bromofluorobenzene	98		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-09
Client ID: DUP-1
Sample Location: PHILADELPHIA, PA
Date Collected: 10/03/23 00:00
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/16/23 13:59
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	0.08	J	ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	20		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.92	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	9.6	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	64		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.73		ug/l	0.50	0.13	1
Methyl cyclohexane	7.2	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-09 Date Collected: 10/03/23 00:00

Client ID: DUP-1 Date Received: 10/04/23

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	13		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	6.8		ug/l	0.50	0.17	1
p/m-Xylene	17		ug/l	1.0	0.33	1
o-Xylene	6.2		ug/l	1.0	0.39	1
Xylenes, Total	23		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	2.1		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	4.2		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	13		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	7.0		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-09
Client ID: DUP-1
Sample Location: PHILADELPHIA, PA
Date Collected: 10/03/23 00:00
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/16/23 13:59
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
4-Bromofluorobenzene	97		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-10
Client ID: FB(10032023)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/03/23 15:00
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/12/23 11:40
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-10 Date Collected: 10/03/23 15:00

Client ID: FB(10032023) Date Received: 10/04/23

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	103		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-10
Client ID: FB(10032023)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/03/23 15:00
Date Received: 10/04/23
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/12/23 11:40
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
4-Bromofluorobenzene	87		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-11
Client ID: TB(10022023)
Sample Location: PHILADELPHIA, PA

Date Collected: 10/02/23 00:00
Date Received: 10/04/23
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 10/12/23 11:16
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-11 Date Collected: 10/02/23 00:00

Client ID: TB(10022023) Date Received: 10/04/23

Sample Location: PHILADELPHIA, PA Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	97		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2358445
Project Number: 30108678
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-11
Client ID: TB(10022023)
Sample Location: PHILADELPHIA, PA
Date Collected: 10/02/23 00:00
Date Received: 10/04/23
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/12/23 11:16
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
4-Bromofluorobenzene	87		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/12/23 06:05
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 10-11 Batch: WG1839047-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/12/23 06:05
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG1839054-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/12/23 06:05
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG1839054-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/12/23 06:05
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG1839054-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	101		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 10/16/23 10:23
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-09 Batch: WG1840563-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
4-Bromofluorobenzene	97		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/16/23 10:23
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1840565-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/16/23 10:23
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1840565-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2358445

Project Number: 30108678 **Report Date:** 10/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/16/23 10:23
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1840565-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2358445

Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 10-11 Batch: WG1839047-3 WG1839047-4								
1,4-Dioxane	99		100		70-130	1		25
1,1,2,2-Tetrachloroethane	75		74		70-130	1		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
4-Bromofluorobenzene	89		89		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2358445

Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1839054-3 WG1839054-4								
Dichlorodifluoromethane	95		94		36-147	1		20
Chloromethane	97		96		64-130	1		20
Vinyl chloride	130		130		55-140	0		20
Bromomethane	**140**	Q	130		39-139	7		20
Chloroethane	**140**	Q	**140**	Q	55-138	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,1-Dichloroethene	100		99		61-145	1		20
Carbon disulfide	99		97		51-130	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		96		70-130	4		20
Methylene chloride	100		97		70-130	3		20
Acetone	110		110		58-148	0		20
trans-1,2-Dichloroethene	100		97		70-130	3		20
Methyl Acetate	100		100		70-130	0		20
Methyl tert butyl ether	100		97		63-130	3		20
1,1-Dichloroethane	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Cyclohexane	96		95		70-130	1		20
Bromochloromethane	110		100		70-130	10		20
Chloroform	98		96		70-130	2		20
Carbon tetrachloride	100		100		63-132	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
2-Butanone	110		100		63-138	10		20
Benzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2358445
Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1839054-3 WG1839054-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	92		90		70-130	2		20
Trichloroethene	100		96		70-130	4		20
1,2-Dichloropropane	98		95		70-130	3		20
Bromodichloromethane	100		97		67-130	3		20
cis-1,3-Dichloropropene	94		89		70-130	5		20
Toluene	95		94		70-130	1		20
Tetrachloroethene	100		100		70-130	0		20
4-Methyl-2-pentanone	83		85		59-130	2		20
trans-1,3-Dichloropropene	88		86		70-130	2		20
1,1,2-Trichloroethane	91		92		70-130	1		20
Dibromochloromethane	90		87		63-130	3		20
1,2-Dibromoethane	96		93		70-130	3		20
2-Hexanone	85		82		57-130	4		20
Chlorobenzene	96		95		75-130	1		20
Ethylbenzene	91		91		70-130	0		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	90		85		70-130	6		20
Styrene	90		90		70-130	0		20
Bromoform	74		76		54-136	3		20
Isopropylbenzene	86		85		70-130	1		20
1,3,5-Trimethylbenzene	85		84		64-130	1		20
1,2,4-Trimethylbenzene	84		84		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2358445

Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1839054-3 WG1839054-4								
1,3-Dichlorobenzene	89		89		70-130	0		20
1,4-Dichlorobenzene	91		88		70-130	3		20
1,2-Dichlorobenzene	90		91		70-130	1		20
1,2-Dibromo-3-chloropropane	87		79		41-144	10		20
1,2,4-Trichlorobenzene	87		84		70-130	4		20
Naphthalene	89		89		70-130	0		20
1,2,3-Trichlorobenzene	90		89		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		90		70-130
Toluene-d8	95		97		70-130
4-Bromofluorobenzene	92		95		70-130
Dibromofluoromethane	101		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2358445

Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 Batch: WG1840563-3 WG1840563-4								
1,4-Dioxane	81		79		70-130	3		25
1,1,2,2-Tetrachloroethane	74		73		70-130	1		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		106		70-130
4-Bromofluorobenzene	98		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2358445
Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1840565-3 WG1840565-4								
Dichlorodifluoromethane	78		80		36-147	3		20
Chloromethane	71		71		64-130	0		20
Vinyl chloride	73		77		55-140	5		20
Bromomethane	67		64		39-139	5		20
Chloroethane	68		71		55-138	4		20
Trichlorofluoromethane	110		120		62-150	9		20
1,1-Dichloroethene	95		97		61-145	2		20
Carbon disulfide	83		86		51-130	4		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	95		97		70-130	2		20
Methylene chloride	91		93		70-130	2		20
Acetone	95		94		58-148	1		20
trans-1,2-Dichloroethene	95		94		70-130	1		20
Methyl Acetate	79		85		70-130	7		20
Methyl tert butyl ether	89		91		63-130	2		20
1,1-Dichloroethane	88		90		70-130	2		20
cis-1,2-Dichloroethene	95		97		70-130	2		20
Cyclohexane	83		87		70-130	5		20
Bromochloromethane	100		110		70-130	10		20
Chloroform	94		95		70-130	1		20
Carbon tetrachloride	110		110		63-132	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
2-Butanone	94		83		63-138	12		20
Benzene	92		95		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2358445
Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1840565-3 WG1840565-4								
1,2-Dichloroethane	100		110		70-130	10		20
Methyl cyclohexane	88		92		70-130	4		20
Trichloroethene	93		97		70-130	4		20
1,2-Dichloropropane	91		86		70-130	6		20
Bromodichloromethane	93		97		67-130	4		20
cis-1,3-Dichloropropene	84		89		70-130	6		20
Toluene	92		96		70-130	4		20
Tetrachloroethene	100		110		70-130	10		20
4-Methyl-2-pentanone	71		76		59-130	7		20
trans-1,3-Dichloropropene	84		86		70-130	2		20
1,1,2-Trichloroethane	84		91		70-130	8		20
Dibromochloromethane	94		98		63-130	4		20
1,2-Dibromoethane	94		98		70-130	4		20
2-Hexanone	69		73		57-130	6		20
Chlorobenzene	94		98		75-130	4		20
Ethylbenzene	89		94		70-130	5		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	85		90		70-130	6		20
Styrene	90		90		70-130	0		20
Bromoform	74		80		54-136	8		20
Isopropylbenzene	85		87		70-130	2		20
1,3,5-Trimethylbenzene	86		89		64-130	3		20
1,2,4-Trimethylbenzene	86		88		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2358445

Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1840565-3 WG1840565-4								
1,3-Dichlorobenzene	91		94		70-130	3		20
1,4-Dichlorobenzene	90		94		70-130	4		20
1,2-Dichlorobenzene	92		94		70-130	2		20
1,2-Dibromo-3-chloropropane	89		91		41-144	2		20
1,2,4-Trichlorobenzene	86		89		70-130	3		20
Naphthalene	88		91		70-130	3		20
1,2,3-Trichlorobenzene	91		94		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	103		105		70-130

METALS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-01
Client ID: MW-2
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/03/23 10:10
Date Received: 10/04/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	10/10/23 13:28	10/17/23 19:53	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-02
Client ID: MW-3
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/03/23 11:40
Date Received: 10/04/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	10/10/23 13:28	10/17/23 19:58	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-03
Client ID: MW-9
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/03/23 13:50
Date Received: 10/04/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	19.19		ug/l	1.000	0.3430	1	10/10/23 13:28	10/17/23 20:02	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-04
Client ID: MW-4
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/03/23 14:40
Date Received: 10/04/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.6017	J	ug/l	1.000	0.3430	1	10/10/23 13:28	10/17/23 20:07	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-05
Client ID: MW-1
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/03/23 10:10
Date Received: 10/04/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	10/10/23 13:28	10/17/23 20:12	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-06
Client ID: MW-7
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/03/23 11:45
Date Received: 10/04/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	1.148		ug/l	1.000	0.3430	1	10/10/23 13:28	10/17/23 20:17	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-07
Client ID: MW-5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/03/23 13:25
Date Received: 10/04/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	10/10/23 13:28	10/17/23 20:21	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-08
Client ID: MW-8
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/03/23 14:30
Date Received: 10/04/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	10/10/23 13:28	10/17/23 20:26	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-09
Client ID: DUP-1
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/03/23 00:00
Date Received: 10/04/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.9488	J	ug/l	1.000	0.3430	1	10/10/23 13:28	10/17/23 20:31	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

SAMPLE RESULTS

Lab ID: L2358445-10
Client ID: FB(10032023)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 10/03/23 15:00
Date Received: 10/04/23
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	10/10/23 13:28	10/17/23 20:39	EPA 3005A	1,6020B	WKP

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2358445
Report Date: 10/18/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1837509-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	10/10/23 13:28	10/16/23 18:24	1,6020B	SMV

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2358445

Report Date: 10/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1837509-2								
Lead, Dissolved	95		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2358445
Report Date: 10/18/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1837509-3 QC Sample: L2357850-01 Client ID: MS Sample												
Lead, Dissolved	5.649	1060	959.4	90		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2358445

Report Date: 10/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1837509-4 QC Sample: L2357850-01 Client ID: DUP Sample						
Lead, Dissolved	5.649	5.720	ug/l	1		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2358445
Report Date: 10/18/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2358445-01A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-01B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-01C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-01D	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		PB-6020S-PPB(180)
L2358445-02A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-02B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-02C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-02D	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		PB-6020S-PPB(180)
L2358445-03A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-03B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-03C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-03D	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		PB-6020S-PPB(180)
L2358445-04A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-04B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-04C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-04D	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		PB-6020S-PPB(180)
L2358445-05A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-05B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-05C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-05D	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		PB-6020S-PPB(180)
L2358445-06A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-06B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-06C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2358445
Report Date: 10/18/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2358445-06D	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		PB-6020S-PPB(180)
L2358445-07A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-07B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-07C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-07D	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		PB-6020S-PPB(180)
L2358445-08A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-08B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-08C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-08D	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		PB-6020S-PPB(180)
L2358445-09A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-09B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-09C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-09D	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		PB-6020S-PPB(180)
L2358445-10A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-10B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-10C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-10D	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		PB-6020S-PPB(180)
L2358445-11A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2358445-11B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2358445
Project Number:	30108678	**Report Date:**	10/18/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2358445
Project Number:	30108678	**Report Date:**	10/18/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2358445
Project Number:	30108678	**Report Date:**	10/18/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2358445
Project Number:	30108678	**Report Date:**	10/18/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd In Lab: 101523

ALPHA Job #: L2358445

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Arcadis US Inc
Address: 1 Harvard Way Suite 5
Hillsborough NJ 08844
Phone: 908 526 1000
Fax:
Email: larry.bratt@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance 51st Street
Project Location: Philadelphia PA
Project #: 30108678
Project Manager: Larry Bratt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☑ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:
include 1,2,3 TMB; Map

SAMPLE HANDLING
Filtration
☑ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	Dissolved metals * field filtered	Sample Specific Comments	TOTAL # BOTTLES
58445-01	MW-2	10/3/23	10:10	AQ	MH/TD	X	X		4
-02	MW-3		11:40			X	X		4
-03	MW-9		13:50			X	X		4
-04	MW-4		14:40			X	X		4
-05	MW-1		10:10			X	X		4
-06	MW-7		11:45			X	X		4
-07	MW-5		13:25			X	X		4
-08	MW-8		14:30			X	X		4
-09	Dup-1		—			X	X		4
-10	FB(10032023)		15:00			X	X		4

Container Type	V	P
Preservative	B	C

Relinquished By:	Date/Time	Received By:	Date/Time
Madelyn Hack	10/3/23 17:33		1230
	10/4/23 1811		10/4/23 19:50
	10/4/23		10/4 22:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 10/3/23

ALPHA Job #: L2358445

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Arcadis US Inc
Address: 1 Harvard Way Suite 5
Hillsborough, NJ 08844
Phone: 908-526-1000
Fax:
Email: larry.brunt@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance St 31st street
Project Location: Philadelphia PA
Project #: 30108674
Project Manager: Larry Brunt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: VOCs	SAMPLE HANDLING	TOTAL # BOTTLES
58445-11	TB(10022023)	10/02/23	—	AQ	—	+		2

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

Container Type	V																					
Preservative	B																					

Relinquished By:	Date/Time	Received By:	Date/Time
Maya Kate Mackey Hank	10/3/23 17:55		
	10/4/23 1530		10/4/23 18:50
	10/4/23	DAL	10/4 22:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L2403900
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678
Report Date:	01/30/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2403900
Report Date: 01/30/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2403900-01	MW-5	WATER	PHILADELPHIA, PA	01/23/24 09:45	01/24/24
L2403900-02	MW-8	WATER	PHILADELPHIA, PA	01/23/24 10:10	01/24/24
L2403900-03	MW-9	WATER	PHILADELPHIA, PA	01/23/24 11:25	01/24/24
L2403900-04	MW-7	WATER	PHILADELPHIA, PA	01/23/24 11:10	01/24/24
L2403900-05	MW-1	WATER	PHILADELPHIA, PA	01/23/24 12:50	01/24/24
L2403900-06	MW-2	WATER	PHILADELPHIA, PA	01/23/24 13:45	01/24/24
L2403900-07	MW-3	WATER	PHILADELPHIA, PA	01/23/24 13:40	01/24/24
L2403900-08	MW-4	WATER	PHILADELPHIA, PA	01/23/24 12:35	01/24/24
L2403900-09	DUP-1	WATER	PHILADELPHIA, PA	01/23/24 00:00	01/24/24
L2403900-10	FB (01232024)	WATER	PHILADELPHIA, PA	01/23/24 15:20	01/24/24
L2403900-11	TB (01232024)	WATER	PHILADELPHIA, PA	01/22/24 00:00	01/24/24

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403900
Project Number:	30108678	**Report Date:**	01/30/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403900
Project Number:	30108678	**Report Date:**	01/30/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2403900-03: The pH was greater than two; however, the sample was analyzed within the method required holding time.

L2403900-09: The acetone result should be considered estimated due to co-elution with a non-target compound.

Volatile Organics by SIM

L2403900-03: The pH was greater than two; however, the sample was analyzed within the method required holding time.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 01/30/24

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-01
Client ID: MW-5
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 09:45
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 08:48
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-01 Date Collected: 01/23/24 09:45

Client ID: MW-5 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-01
Client ID: MW-5
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 09:45
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 08:48
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
4-Bromofluorobenzene	93		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-02
Client ID: MW-8
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 10:10
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 09:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	2.1	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-02 Date Collected: 01/23/24 10:10

Client ID: MW-8 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	5.2		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.37	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	90		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-02
Client ID: MW-8
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 10:10
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 09:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-03
Client ID: MW-9
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 11:25
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 11:34
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	130		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	0.31	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	13		ug/l	5.0	1.9	1
Benzene	1.3		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	3.6	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-03 Date Collected: 01/23/24 11:25

Client ID: MW-9 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	10		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	9.5		ug/l	0.50	0.17	1
p/m-Xylene	69		ug/l	1.0	0.33	1
o-Xylene	54		ug/l	1.0	0.39	1
Xylenes, Total	120		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	5.2		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	48		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	150		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	96		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	79		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-03
Client ID: MW-9
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 11:25
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 11:34
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-04
Client ID: MW-7
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 11:10
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 09:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	0.08	J	ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	0.15	J	ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.55	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	5.8	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	50		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.56		ug/l	0.50	0.13	1
Methyl cyclohexane	4.6	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-04 Date Collected: 01/23/24 11:10

Client ID: MW-7 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	5.9		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	2.5		ug/l	0.50	0.17	1
p/m-Xylene	4.4		ug/l	1.0	0.33	1
o-Xylene	1.8		ug/l	1.0	0.39	1
Xylenes, Total	6.2		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.87		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	1.8	J	ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	4.5		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	1.8		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-04
Client ID: MW-7
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 11:10
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 09:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-05
Client ID: MW-1
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 12:50
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 11:58
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	10		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.98		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	10		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-05 Date Collected: 01/23/24 12:50

Client ID: MW-1 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.79		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	2.3		ug/l	1.0	0.33	1
o-Xylene	0.68	J	ug/l	1.0	0.39	1
Xylenes, Total	3.0	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	1.7		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.40	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	0.45	J	ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	83		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-05
Client ID: MW-1
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 12:50
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 11:58
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
4-Bromofluorobenzene	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-06
Client ID: MW-2
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 13:45
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 09:59
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	5.5		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	1.7		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	3.9	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	3.9		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	4.4	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-06 Date Collected: 01/23/24 13:45

Client ID: MW-2 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.8		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.49	J	ug/l	0.50	0.17	1
p/m-Xylene	2.0		ug/l	1.0	0.33	1
o-Xylene	4.5		ug/l	1.0	0.39	1
Xylenes, Total	6.5		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.34	J	ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	4.3		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	3.5		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	7.2		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-06
Client ID: MW-2
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 13:45
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 09:59
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
4-Bromofluorobenzene	91		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-07
Client ID: MW-3
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 13:40
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 10:23
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.6	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-07 Date Collected: 01/23/24 13:40

Client ID: MW-3 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	111		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-07
Client ID: MW-3
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 13:40
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 10:23
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-08
Client ID: MW-4
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 12:35
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 10:47
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	6.6		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-08 Date Collected: 01/23/24 12:35

Client ID: MW-4 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-08
Client ID: MW-4
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 12:35
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 10:47
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-09
Client ID: DUP-1
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 00:00
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 11:11
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	0.08	J	ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	11		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.55	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	5.5	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	47		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.54		ug/l	0.50	0.13	1
Methyl cyclohexane	4.9	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-09 Date Collected: 01/23/24 00:00

Client ID: DUP-1 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	5.6		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	2.4		ug/l	0.50	0.17	1
p/m-Xylene	4.8		ug/l	1.0	0.33	1
o-Xylene	2.0		ug/l	1.0	0.39	1
Xylenes, Total	6.8		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.96		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	1.9	J	ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	4.8		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	2.3		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-09
Client ID: DUP-1
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 00:00
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 11:11
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	93		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-10
Client ID: FB (01232024)
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 15:20
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 06:03
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-10 Date Collected: 01/23/24 15:20

Client ID: FB (01232024) Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	111		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-10
Client ID: FB (01232024)
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 15:20
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 06:03
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	93		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-11
Client ID: TB (01232024)
Sample Location: PHILADELPHIA, PA

Date Collected: 01/22/24 00:00
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 05:39
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-11 Date Collected: 01/22/24 00:00

Client ID: TB (01232024) Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	110		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-11
Client ID: TB (01232024)
Sample Location: PHILADELPHIA, PA

Date Collected: 01/22/24 00:00
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 05:39
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
4-Bromofluorobenzene	95		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/26/24 05:15
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1879277-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/26/24 05:15
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1879277-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/26/24 05:15
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1879277-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	107		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 01/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 05:15
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-11 Batch: WG1879279-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
4-Bromofluorobenzene	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2403900

Report Date: 01/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1879277-3 WG1879277-4								
Dichlorodifluoromethane	100		100		36-147	0		20
Chloromethane	100		99		64-130	1		20
Vinyl chloride	120		120		55-140	0		20
Bromomethane	120		120		39-139	0		20
Chloroethane	130		120		55-138	8		20
Trichlorofluoromethane	110		110		62-150	0		20
1,1-Dichloroethene	98		100		61-145	2		20
Carbon disulfide	99		96		51-130	3		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		100		70-130	10		20
Methylene chloride	100		96		70-130	4		20
Acetone	98		100		58-148	2		20
trans-1,2-Dichloroethene	95		93		70-130	2		20
Methyl Acetate	100		86		70-130	15		20
Methyl tert butyl ether	77		76		63-130	1		20
1,1-Dichloroethane	96		99		70-130	3		20
cis-1,2-Dichloroethene	100		95		70-130	5		20
Cyclohexane	96		96		70-130	0		20
Bromochloromethane	96		91		70-130	5		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		99		63-132	1		20
1,1,1-Trichloroethane	96		94		67-130	2		20
2-Butanone	95		82		63-138	15		20
Benzene	95		94		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2403900

Report Date: 01/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1879277-3 WG1879277-4								
1,2-Dichloroethane	93		88		70-130	6		20
Methyl cyclohexane	100		100		70-130	0		20
Trichloroethene	100		97		70-130	3		20
1,2-Dichloropropane	87		88		70-130	1		20
Bromodichloromethane	99		97		67-130	2		20
cis-1,3-Dichloropropene	98		86		70-130	13		20
Toluene	96		92		70-130	4		20
Tetrachloroethene	92		90		70-130	2		20
4-Methyl-2-pentanone	66		67		59-130	2		20
trans-1,3-Dichloropropene	76		77		70-130	1		20
1,1,2-Trichloroethane	94		90		70-130	4		20
Dibromochloromethane	91		90		63-130	1		20
1,2-Dibromoethane	87		88		70-130	1		20
2-Hexanone	70		57		57-130	20		20
Chlorobenzene	92		90		75-130	2		20
Ethylbenzene	90		88		70-130	2		20
p/m-Xylene	85		80		70-130	6		20
o-Xylene	85		85		70-130	0		20
Styrene	90		85		70-130	6		20
Bromoform	79		80		54-136	1		20
Isopropylbenzene	87		86		70-130	1		20
1,3,5-Trimethylbenzene	85		82		64-130	4		20
1,2,4-Trimethylbenzene	82		83		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1879277-3 WG1879277-4								
1,3-Dichlorobenzene	80		80		70-130	0		20
1,4-Dichlorobenzene	87		84		70-130	4		20
1,2-Dichlorobenzene	82		83		70-130	1		20
1,2-Dibromo-3-chloropropane	89		84		41-144	6		20
1,2,4-Trichlorobenzene	81		81		70-130	0		20
Naphthalene	74		75		70-130	1		20
1,2,3-Trichlorobenzene	81		83		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		102		70-130
Toluene-d8	105		104		70-130
4-Bromofluorobenzene	100		98		70-130
Dibromofluoromethane	104		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2403900

Report Date: 01/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-11 Batch: WG1879279-3 WG1879279-4								
1,4-Dioxane	74		74		70-130	0		25
1,1,2,2-Tetrachloroethane	94		99		70-130	5		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		111		70-130
4-Bromofluorobenzene	94		94		70-130

METALS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-01
Client ID: MW-5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 09:45
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 17:41	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-02
Client ID: MW-8
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 10:10
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 17:46	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-03
Client ID: MW-9
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 11:25
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	15.33		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 17:50	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-04
Client ID: MW-7
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 11:10
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.3492	J	ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 17:55	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-05
Client ID: MW-1
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 12:50
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 18:27	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-06
Client ID: MW-2
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 13:45
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 18:32	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-07
Client ID: MW-3
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 13:40
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 18:37	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-08
Client ID: MW-4
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 12:35
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.3658	J	ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 18:41	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-09
Client ID: DUP-1
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 00:00
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.3736	J	ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 18:46	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

SAMPLE RESULTS

Lab ID: L2403900-10
Client ID: FB (01232024)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 15:20
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 18:23	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 01/30/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1878113-1										
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 17:18	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2403900

Report Date: 01/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1878113-2								
Lead, Dissolved	98		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2403900
Report Date: 01/30/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1878113-3 QC Sample: L2403900-01 Client ID: MW-5												
Lead, Dissolved	ND	530	549.0	104		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2403900
Report Date: 01/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1878113-4 QC Sample: L2403900-01 Client ID: MW-5						
Lead, Dissolved	ND	ND	ug/l	NC		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2403900
Report Date: 01/30/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2403900-01A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-01B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-01C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-01D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-02A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-02B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-02C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-02D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-03A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-03B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-03C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-03D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-04A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-04B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-04C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-04D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-05A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-05B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-05C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-05D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-06A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-06B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-06C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2403900
Report Date: 01/30/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2403900-06D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-07A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-07B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-07C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-07D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-08A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-08B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-08C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-08D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-09A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-09B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-09C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-09D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-10A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-10B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-10C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-10D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-11A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-11B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403900
Project Number:	30108678	**Report Date:**	01/30/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403900
Project Number:	30108678	**Report Date:**	01/30/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403900
Project Number:	30108678	**Report Date:**	01/30/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403900
Project Number:	30108678	**Report Date:**	01/30/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 1/25/24

ALPHA Job #: L2403900

Client Information

Client: Arcadis US Inc
Address: 1 Harvard Way Suite 5
Hillsborough NJ 08844
Phone: 908-526-1000
Fax:
Email: Larry.Brunt@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance 51st Street
Project Location: Philadelphia, PA
Project #: 30108678
Project Manager: Larry Brunt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☑ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:
Include 1,2,3 TMB; Nap

SAMPLE HANDLING
Filtration
☑ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC's (PADEP)	Dissolved Metals - Field Filtered	Sample Specific Comments	TOTAL # BOTTLES
03900-01	MW-5	1/23/24	09:45	AQ	TD/RP	X	X		4
02	MW-8		10:10			X	X		4
03	MW-9		11:25			X	X		4
04	MW-7		11:10			X	X		4
05	MW-1		12:50			X	X		4
06	MW-2		13:45			X	X		4
07	MW-3		13:40			X	X		4
08	MW-4		12:35			X	X		4
09	DUP-1		—			X	X		4
10	FB(01232024)		15:20			X	X		4

Container Type	V	P
Preservative	B	C

Relinquished By:	Date/Time	Received By:	Date/Time
Trinity Dammers	1/23/24 15:45	MPIN	1-24-24 10:30
MPIN 1-24-24	1/24 1600		1/24 [illegible]
	1/25 [illegible]	Linda DeLucia	1/24 22:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 1/25/24

ALPHA Job #: L2403900

Client Information

Client: Arcadis US Inc
Address: 1 Harvard way Suite 5
Hillsborough NJ 08844
Phone: 908-526-1000
Fax:
Email: Larry.Brunt@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance 51st St
Project Location: Philadelphia, PA
Project #: 30108678
Project Manager: Larry Brunt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☑ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: VOC's (PAEP)	SAMPLE HANDLING	TOTAL # BOTTLES
03900-11	TB(122224)	1/22/24	—	AQ	—	X		

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

Container Type	V
Preservative	B

Relinquished By:	Date/Time	Received By:	Date/Time
Trinity Dammons	1/23/24 15:45	MPIN	1-24-24 1031
MPIN	1/24 1600	MPIN	1/24 19:20
	1/25		1/24 22:20
			1/25/24 0040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Ozark UNDERGROUND LABORATORY 1572 Aley Lane • Protem, MO 65733 • (417) 785-4289 • fax (417) 785-4290 • contact@ozarkundergroundlab.com

Certificate of Analysis

Date of certificate: May 2, 2024
Client: Arcadis
1 Harvard Way Suite 5
Hillsborough, NJ 08844
Project name/site: Alliance 51st Street
Project number: 30108678.03C
Contact person: Larry.Brunt@arcadis.com
Matt.Hilinski@arcadis.com

Samples collected by: Matt Hilinski, Arcadis
Date samples shipped: April 29, 2024
Date samples rec'd at OUL: April 30, 2024
Date analyzed by OUL: April 30, 2024
Included with certificate: Table of results, copy of sample collection data sheet

Results for water sample analyzed for the presence of fluorescein, eosine and rhodamine WT (RWT), sulforhodamine B (SRB) and Pyranine dyes.

Peak wavelengths are reported in nanometers (nm); dye concentrations are reported in parts per billion (ppb).

OUL Number	Station Name	Date/Time Collected	Fluorescein		Eosine		RWT		SRB		Pyranine	
			Peak (nm)	Conc. (ppb)	Peak (nm)	Conc. (ppb)	Peak (nm)	Conc. (ppb)	Peak (nm)	Conc. (ppb)	Peak (nm)	Conc. (ppb)
H1531	SW-1	4/29/24 0650	ND		ND		ND		ND		ND	

Note: Dye concentrations are based upon standards used at the OUL. The standard concentrations are based upon the as sold weight of the dye that the OUL uses. If the client is not using OUL dyes, the client should provide the OUL with a sample of the dye to compare to the OUL dyes.

Footnotes: ND = No dye detected

Thomas J. Aley, PHG and RG

F:\docs\COA\Arcadis Certificates\Arcadis_Alliance 51st Street_01

OZARK UNDERGROUND LABORATORY, INC.

1572 Aley Lane Protem, MO 65733 (417) 785-4289 fax (417) 785-4290 email: contact@ozarkundergroundlab.com

SAMPLE COLLECTION DATA SHEET for FLUORESCENCE ANALYSIS

Project: Alliance 61st street Week No: _____ Samples Collected By: Matt Hilinski Arcadis

Samples Shipped By: Fedex Samples Received By: Amber Comstock/OUL

Date Samples Shipped: 4/29/24 Date Samples Received: 4/30/24 Time Samples Received: 1230 Return Cooler? Yes ☐ No ☒

Bill to: Arcadis Send Results to: Lenny.Grant@arcadis.com matthew.hilinski@arcadis.com

Analyze for: ☒ Fluorescein ☒ Eosine ☒ Rhodamine WT ☒ Other Sulforhodamine B Pyranine Ship cooler to: N/A

OUL use only		Please indicate stations where dye was visible in the field for field technician use - use black ink only						OUL use only
# CHAR REC'D	LAB NUMBER	STATION NUMBER	STATION NAME	PLACED DATE	PLACED TIME	COLLECTED DATE	COLLECTED TIME	# WATER REC'D
0	H1531		SW-1	N/A	N/A	4/29/24	0650	6

COMMENTS 6 - non Preserved ~~HCl~~ Amber vials

This sheet filled out by OUL staff? Yes (No) Charts for samples on this page proofed by OUL: AC/OUL

OUL Project No. 2047 Date Analyzed: 4/30/24 Analyzed By: A. Goers/OUL

ANALYTICAL REPORT

Lab Number:	L2425154
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST ST
Project Number:	30108678.03B
Report Date:	05/08/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2425154
Report Date: 05/08/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2425154-01	SW-1	WATER	PHILADELPHIA, PA	04/29/24 06:50	05/07/24

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2425154
Project Number:	30108678.03B	**Report Date:**	05/08/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2425154
Project Number:	30108678.03B	**Report Date:**	05/08/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 05/08/24

METALS

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2425154
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2425154-01
Client ID: SW-1
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 04/29/24 06:50
Date Received: 05/07/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	21560		ug/l	500.0	89.00	500	05/08/24 08:21	05/08/24 12:36	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B
Lab Number: L2425154
Report Date: 05/08/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1918377-1										
Chromium, Total	ND		ug/l	1.000	0.1780	1	05/08/24 08:21	05/08/24 11:54	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2425154

Report Date: 05/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1918377-2								
Chromium, Total	100		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2425154
Report Date: 05/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1918377-3 QC Sample: L2424529-01 Client ID: MS Sample												
Chromium, Total	2.663	200	200.8	99		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST ST

Project Number: 30108678.03B

Lab Number: L2425154

Report Date: 05/08/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1918377-4 QC Sample: L2424529-01 Client ID: DUP Sample						
Chromium, Total	2.663	0.9447J	ug/l	NC		20

Project Name: ALLIANCE 51ST ST
Project Number: 30108678.03B

Lab Number: L2425154
Report Date: 05/08/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2425154-01A	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		CR-6020T-PPB(180)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2425154
Project Number:	30108678.03B	**Report Date:**	05/08/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2425154
Project Number:	30108678.03B	**Report Date:**	05/08/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2425154
Project Number:	30108678.03B	**Report Date:**	05/08/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST ST	**Lab Number:**	L2425154
Project Number:	30108678.03B	**Report Date:**	05/08/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 5/8/24

ALPHA Job #: L2425154

Client Information

Client: Arcadis U.S., Inc.
Address: 1 Harvard Way Ste. 5
Hillsborough, NJ 08844
Phone: (908) 526-1100
Fax: (908) 253-3295
Email: larry.bount@arcadis.com

Project Information

Project Name: Alliance 51st Street
Project Location: Philadelphia, PA
Project #: 30108678.03B
(Use Project name as Project #) ☐
Project Manager: Larry Bount
ALPHAQuote #: 467426

Turn-Around Time

Standard ☐
Rush (only if pre approved) ☒
Due Date: 5/9/24
# of Days: 2

These samples have been previously analyzed by Alpha ☐

Deliverables

☐ NJ Full ☒ Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☒ Other

Billing Information

☐ Same as Client Info
PO #

Site Information

Is this site impacted by Petroleum? Yes ☒
Petroleum Product:

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done None
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Chromium	Sample Specific Comments	Total Bottle
25154-01	SW-1	4/29/24	6:50	SW	MH	X		1

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type: P
Preservative: C

Relinquished By:	Date/Time	Received By:	Date/Time
	5/7/2024 3:28 pm		5/7/24 15:30
	5/7/24		5/7/24 18:45
	5/8 01:30		5/8 22:00
			5/8/24 0030

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2403900
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678
Report Date:	05/08/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2403900
Report Date: 05/08/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2403900-01	MW-5	WATER	PHILADELPHIA, PA	01/23/24 09:45	01/24/24
L2403900-02	MW-8	WATER	PHILADELPHIA, PA	01/23/24 10:10	01/24/24
L2403900-03	MW-9	WATER	PHILADELPHIA, PA	01/23/24 11:25	01/24/24
L2403900-04	MW-7	WATER	PHILADELPHIA, PA	01/23/24 11:10	01/24/24
L2403900-05	MW-1	WATER	PHILADELPHIA, PA	01/23/24 12:50	01/24/24
L2403900-06	MW-2	WATER	PHILADELPHIA, PA	01/23/24 13:45	01/24/24
L2403900-07	MW-3	WATER	PHILADELPHIA, PA	01/23/24 13:40	01/24/24
L2403900-08	MW-4	WATER	PHILADELPHIA, PA	01/23/24 12:35	01/24/24
L2403900-09	DUP-1	WATER	PHILADELPHIA, PA	01/23/24 00:00	01/24/24
L2403900-10	FB (01232024)	WATER	PHILADELPHIA, PA	01/23/24 15:20	01/24/24
L2403900-11	TB (01232024)	WATER	PHILADELPHIA, PA	01/22/24 00:00	01/24/24

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403900
Project Number:	30108678	**Report Date:**	05/08/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403900
Project Number:	30108678	**Report Date:**	05/08/24

Case Narrative (continued)

Report Revision

May 08, 2024: This report includes the results of the Dissolved Chromium performed on L2403900-01, -02, -03, -05, -06 and -10.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2403900-03: The pH was greater than two; however, the sample was analyzed within the method required holding time.

L2403900-09: The acetone result should be considered estimated due to co-elution with a non-target compound.

Volatile Organics by SIM

L2403900-03: The pH was greater than two; however, the sample was analyzed within the method required holding time.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Caitlin Walukevich

Title: Technical Director/Representative Date: 05/08/24

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-01
Client ID: MW-5
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 09:45
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 08:48
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-01 Date Collected: 01/23/24 09:45

Client ID: MW-5 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-01
Client ID: MW-5
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 09:45
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 08:48
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
4-Bromofluorobenzene	93		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-02
Client ID: MW-8
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 10:10
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 09:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	2.1	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-02 Date Collected: 01/23/24 10:10

Client ID: MW-8 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	5.2		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	0.37	J	ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	90		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-02
Client ID: MW-8
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 10:10
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 09:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-03
Client ID: MW-9
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 11:25
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 11:34
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	130		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	0.31	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	13		ug/l	5.0	1.9	1
Benzene	1.3		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	3.6	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-03 Date Collected: 01/23/24 11:25

Client ID: MW-9 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	10		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	9.5		ug/l	0.50	0.17	1
p/m-Xylene	69		ug/l	1.0	0.33	1
o-Xylene	54		ug/l	1.0	0.39	1
Xylenes, Total	120		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	5.2		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	48		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	150		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	96		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	79		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-03
Client ID: MW-9
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 11:25
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 11:34
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-04
Client ID: MW-7
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 11:10
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 09:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	0.08	J	ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	0.15	J	ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.55	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	5.8	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	50		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.56		ug/l	0.50	0.13	1
Methyl cyclohexane	4.6	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-04 Date Collected: 01/23/24 11:10

Client ID: MW-7 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	5.9		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	2.5		ug/l	0.50	0.17	1
p/m-Xylene	4.4		ug/l	1.0	0.33	1
o-Xylene	1.8		ug/l	1.0	0.39	1
Xylenes, Total	6.2		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.87		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	1.8	J	ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	4.5		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	1.8		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-04
Client ID: MW-7
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 11:10
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 09:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-05
Client ID: MW-1
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 12:50
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 11:58
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	10		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	0.98		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	10		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-05 Date Collected: 01/23/24 12:50

Client ID: MW-1 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	0.79		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	2.3		ug/l	1.0	0.33	1
o-Xylene	0.68	J	ug/l	1.0	0.39	1
Xylenes, Total	3.0	J	ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	1.7		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	0.40	J	ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	0.45	J	ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	83		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-05
Client ID: MW-1
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 12:50
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 11:58
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
4-Bromofluorobenzene	100		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-06
Client ID: MW-2
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 13:45
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 09:59
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	5.5		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	1.7		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	3.9	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	3.9		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	4.4	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-06 Date Collected: 01/23/24 13:45

Client ID: MW-2 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	1.8		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	0.49	J	ug/l	0.50	0.17	1
p/m-Xylene	2.0		ug/l	1.0	0.33	1
o-Xylene	4.5		ug/l	1.0	0.39	1
Xylenes, Total	6.5		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.34	J	ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	4.3		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	3.5		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	7.2		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-06
Client ID: MW-2
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 13:45
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 09:59
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
4-Bromofluorobenzene	91		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-07
Client ID: MW-3
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 13:40
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 10:23
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.6	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-07 Date Collected: 01/23/24 13:40

Client ID: MW-3 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	111		70-130

Project Name: ALLIANCE 51ST STREET
Lab Number: L2403900
Project Number: 30108678
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-07
Client ID: MW-3
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 13:40
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 10:23
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-08 Date Collected: 01/23/24 12:35
Client ID: MW-4 Date Received: 01/24/24
Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 10:47
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	6.6		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-08 Date Collected: 01/23/24 12:35

Client ID: MW-4 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	112		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-08
Client ID: MW-4
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 12:35
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 10:47
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	94		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-09
Client ID: DUP-1
Sample Location: PHILADELPHIA, PA

Date Collected: 01/23/24 00:00
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 11:11
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	0.08	J	ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	11		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	0.55	J	ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	5.5	J	ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	47		ug/l	0.50	0.16	1
1,2-Dichloroethane	0.54		ug/l	0.50	0.13	1
Methyl cyclohexane	4.9	J	ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-09 Date Collected: 01/23/24 00:00

Client ID: DUP-1 Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	5.6		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	2.4		ug/l	0.50	0.17	1
p/m-Xylene	4.8		ug/l	1.0	0.33	1
o-Xylene	2.0		ug/l	1.0	0.39	1
Xylenes, Total	6.8		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	0.96		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	1.9	J	ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	4.8		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	2.3		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-09
Client ID: DUP-1
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 00:00
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 11:11
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
4-Bromofluorobenzene	93		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-10
Client ID: FB (01232024)
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 15:20
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 06:03
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-10 Date Collected: 01/23/24 15:20

Client ID: FB (01232024) Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	111		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-10
Client ID: FB (01232024)
Sample Location: PHILADELPHIA, PA
Date Collected: 01/23/24 15:20
Date Received: 01/24/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 06:03
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	93		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-11
Client ID: TB (01232024)
Sample Location: PHILADELPHIA, PA

Date Collected: 01/22/24 00:00
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/26/24 05:39
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-11 Date Collected: 01/22/24 00:00

Client ID: TB (01232024) Date Received: 01/24/24

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Naphthalene	ND		ug/l	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	110		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-11
Client ID: TB (01232024)
Sample Location: PHILADELPHIA, PA

Date Collected: 01/22/24 00:00
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 05:39
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
4-Bromofluorobenzene	95		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/26/24 05:15
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1879277-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/26/24 05:15
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1879277-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/26/24 05:15
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1879277-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	107		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 01/26/24 05:15
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-11 Batch: WG1879279-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
4-Bromofluorobenzene	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2403900

Report Date: 05/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1879277-3 WG1879277-4								
Dichlorodifluoromethane	100		100		36-147	0		20
Chloromethane	100		99		64-130	1		20
Vinyl chloride	120		120		55-140	0		20
Bromomethane	120		120		39-139	0		20
Chloroethane	130		120		55-138	8		20
Trichlorofluoromethane	110		110		62-150	0		20
1,1-Dichloroethene	98		100		61-145	2		20
Carbon disulfide	99		96		51-130	3		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		100		70-130	10		20
Methylene chloride	100		96		70-130	4		20
Acetone	98		100		58-148	2		20
trans-1,2-Dichloroethene	95		93		70-130	2		20
Methyl Acetate	100		86		70-130	15		20
Methyl tert butyl ether	77		76		63-130	1		20
1,1-Dichloroethane	96		99		70-130	3		20
cis-1,2-Dichloroethene	100		95		70-130	5		20
Cyclohexane	96		96		70-130	0		20
Bromochloromethane	96		91		70-130	5		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		99		63-132	1		20
1,1,1-Trichloroethane	96		94		67-130	2		20
2-Butanone	95		82		63-138	15		20
Benzene	95		94		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2403900

Report Date: 05/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1879277-3 WG1879277-4								
1,2-Dichloroethane	93		88		70-130	6		20
Methyl cyclohexane	100		100		70-130	0		20
Trichloroethene	100		97		70-130	3		20
1,2-Dichloropropane	87		88		70-130	1		20
Bromodichloromethane	99		97		67-130	2		20
cis-1,3-Dichloropropene	98		86		70-130	13		20
Toluene	96		92		70-130	4		20
Tetrachloroethene	92		90		70-130	2		20
4-Methyl-2-pentanone	66		67		59-130	2		20
trans-1,3-Dichloropropene	76		77		70-130	1		20
1,1,2-Trichloroethane	94		90		70-130	4		20
Dibromochloromethane	91		90		63-130	1		20
1,2-Dibromoethane	87		88		70-130	1		20
2-Hexanone	70		57		57-130	20		20
Chlorobenzene	92		90		75-130	2		20
Ethylbenzene	90		88		70-130	2		20
p/m-Xylene	85		80		70-130	6		20
o-Xylene	85		85		70-130	0		20
Styrene	90		85		70-130	6		20
Bromoform	79		80		54-136	1		20
Isopropylbenzene	87		86		70-130	1		20
1,3,5-Trimethylbenzene	85		82		64-130	4		20
1,2,4-Trimethylbenzene	82		83		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2403900
Report Date: 05/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1879277-3 WG1879277-4								
1,3-Dichlorobenzene	80		80		70-130	0		20
1,4-Dichlorobenzene	87		84		70-130	4		20
1,2-Dichlorobenzene	82		83		70-130	1		20
1,2-Dibromo-3-chloropropane	89		84		41-144	6		20
1,2,4-Trichlorobenzene	81		81		70-130	0		20
Naphthalene	74		75		70-130	1		20
1,2,3-Trichlorobenzene	81		83		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		102		70-130
Toluene-d8	105		104		70-130
4-Bromofluorobenzene	100		98		70-130
Dibromofluoromethane	104		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2403900

Report Date: 05/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-11 Batch: WG1879279-3 WG1879279-4								
1,4-Dioxane	74		74		70-130	0		25
1,1,2,2-Tetrachloroethane	94		99		70-130	5		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		111		70-130
4-Bromofluorobenzene	94		94		70-130

METALS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-01
Client ID: MW-5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 09:45
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	5.280		ug/l	2.000	0.1780	1	01/25/24 12:33	01/25/24 17:41	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 17:41	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-02
Client ID: MW-8
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 10:10
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	1.222		ug/l	1.000	0.1780	1	01/25/24 12:33	01/25/24 17:46	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 17:46	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-03
Client ID: MW-9
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 11:25
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	923.5		ug/l	2.000	0.1780	1	01/25/24 12:33	01/25/24 17:50	EPA 3005A	1,6020B	EJF
Lead, Dissolved	15.33		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 17:50	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-04
Client ID: MW-7
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 11:10
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.3492	J	ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 17:55	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-05
Client ID: MW-1
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 12:50
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	3.518		ug/l	2.000	0.1780	1	01/25/24 12:33	01/25/24 18:27	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 18:27	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-06
Client ID: MW-2
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 13:45
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	5.794		ug/l	2.000	0.1780	1	01/25/24 12:33	01/25/24 18:32	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 18:32	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-07
Client ID: MW-3
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 13:40
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 18:37	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-08
Client ID: MW-4
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 12:35
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.3658	J	ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 18:41	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-09
Client ID: DUP-1
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 00:00
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Lead, Dissolved	0.3736	J	ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 18:46	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2403900
Report Date: 05/08/24

SAMPLE RESULTS

Lab ID: L2403900-10
Client ID: FB (01232024)
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 01/23/24 15:20
Date Received: 01/24/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	1.731	J	ug/l	2.000	0.1780	1	01/25/24 12:33	01/25/24 18:23	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 18:23	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2403900

Project Number: 30108678 **Report Date:** 05/08/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1878113-1										
Chromium, Dissolved	0.8657	J	ug/l	2.000	0.1780	1	01/25/24 12:33	01/25/24 17:18	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	01/25/24 12:33	01/25/24 17:18	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2403900

Report Date: 05/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1878113-2								
Chromium, Dissolved	95		-		80-120	-		
Lead, Dissolved	98		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2403900
Report Date: 05/08/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1878113-3 QC Sample: L2403900-01 Client ID: MW-5												
Chromium, Dissolved	5.280	200	205.3	100		-	-		75-125	-		20
Lead, Dissolved	ND	530	549.0	104		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2403900

Report Date: 05/08/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1878113-4 QC Sample: L2403900-01 Client ID: MW-5						
Chromium, Dissolved	5.280	5.682	ug/l	7		20
Lead, Dissolved	ND	ND	ug/l	NC		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2403900
Report Date: 05/08/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2403900-01A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-01B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-01C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-01D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180),CR-6020S-PPB(180)
L2403900-02A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-02B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-02C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-02D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180),CR-6020S-PPB(180)
L2403900-03A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-03B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-03C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-03D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180),CR-6020S-PPB(180)
L2403900-04A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-04B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-04C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-04D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-05A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-05B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-05C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-05D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180),CR-6020S-PPB(180)
L2403900-06A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-06B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-06C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2403900
Report Date: 05/08/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2403900-06D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180),CR-6020S-PPB(180)
L2403900-07A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-07B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-07C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-07D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-08A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-08B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-08C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-08D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-09A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-09B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-09C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-09D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180)
L2403900-10A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-10B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-10C	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-10D	Plastic 250ml HNO3 preserved	A	<2	<2	4.3	Y	Absent		PB-6020S-PPB(180),CR-6020S-PPB(180)
L2403900-11A	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2403900-11B	Vial HCl preserved	A	NA		4.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403900
Project Number:	30108678	**Report Date:**	05/08/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403900
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Project Number:	30108678	**Report Date:**	05/08/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2403900
Project Number:	30108678	**Report Date:**	05/08/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 1/25/24

ALPHA Job #: L2403900

Client Information

Client: Arcadis US Inc
Address: 1 Harvard Way Suite 5
Hillsborough NJ 08844
Phone: 908-526-1000
Fax:
Email: Larry.Brunt@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance 51st Street
Project Location: Philadelphia, PA
Project #: 30108678
Project Manager: Larry Brunt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☑ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:
Include 1,2,3 TMB; Nap

SAMPLE HANDLING
Filtration
☑ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC's (PADEP)	Dissolved Metals - Field Filtered	Sample Specific Comments	TOTAL # BOTTLES
03900-01	MW-5	1/23/24	09:45	AQ	TD/RP	X	X		4
02	MW-8		10:10			X	X		4
03	MW-9		11:25			X	X		4
04	MW-7		11:10			X	X		4
05	MW-1		12:50			X	X		4
06	MW-2		13:45			X	X		4
07	MW-3		13:40			X	X		4
08	MW-4		12:35			X	X		4
09	DUP-1		—			X	X		4
10	FB(01232024)		15:20			X	X		4

Container Type	V	P
Preservative	B	C

Relinquished By:	Date/Time	Received By:	Date/Time
Trinity Dammers	1/23/24 15:45	MPIN	1-24-24 10:30
MPIN 1-24-24	1/24 1600		1/24 [illegible]
	1/25 [illegible]	Linda DeLucca	1/24 22:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 1/25/24

ALPHA Job #: L2403900

Client Information

Client: Arcadis US Inc
Address: 1 Harvard way Suite 5
Hillsborough NJ 08844
Phone: 908-526-1000
Fax:
Email: Larry.Brunt@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance 51st St
Project Location: Philadelphia, PA
Project #: 30108678
Project Manager: Larry Brunt
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☑ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS VOC's (PADEP)	SAMPLE HANDLING	TOTAL # BOTTLES
03900-11	TB(122224)	1/22/24	—	AQ	—	X		

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

Container Type	V
Preservative	B

Relinquished By:	Date/Time	Received By:	Date/Time
Trinity Dammons	1/23/24 15:45	MPIN	1-24-24 1031
MPIN	1/24 1600	MPIN	1/24 19:20
	1/25		1/24 22:20
			1/25/24 0040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L2423395
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678
Report Date:	05/13/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2423395
Report Date: 05/13/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2423395-01	SW-1	WATER	PHILADELPHIA, PA	04/29/24 06:50	04/29/24
L2423395-02	SED-1	SOIL	PHILADELPHIA, PA	04/29/24 07:00	04/29/24

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2423395
Project Number:	30108678	**Report Date:**	05/13/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2423395
Project Number:	30108678	**Report Date:**	05/13/24

Case Narrative (continued)

Report Submission

May 13, 2024: This final report includes the results of all requested analyses.

May 06, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 05/13/24

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2423395

Project Number: 30108678 **Report Date:** 05/13/24

SAMPLE RESULTS

Lab ID: L2423395-01 Date Collected: 04/29/24 06:50
Client ID: SW-1 Date Received: 04/29/24
Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/02/24 10:28
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	8.6		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2423395

Project Number: 30108678 **Report Date:** 05/13/24

SAMPLE RESULTS

Lab ID: L2423395-01 Date Collected: 04/29/24 06:50

Client ID: SW-1 Date Received: 04/29/24

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	114		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

SAMPLE RESULTS

Lab ID: L2423395-01
Client ID: SW-1
Sample Location: PHILADELPHIA, PA

Date Collected: 04/29/24 06:50
Date Received: 04/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/02/24 10:28
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
4-Bromofluorobenzene	101		70-130

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/02/24 06:48
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1916175-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2423395

Project Number: 30108678 **Report Date:** 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/02/24 06:48
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1916175-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/02/24 06:48
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1916175-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	118		70-130

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2423395

Project Number: 30108678 **Report Date:** 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 05/02/24 06:48
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1916591-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
4-Bromofluorobenzene	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2423395

Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1916175-3 WG1916175-4								
Dichlorodifluoromethane	82		83		36-147	1		20
Chloromethane	100		100		64-130	0		20
Vinyl chloride	77		78		55-140	1		20
Bromomethane	53		58		39-139	9		20
Chloroethane	71		68		55-138	4		20
Trichlorofluoromethane	97		97		62-150	0		20
1,1-Dichloroethene	95		100		61-145	5		20
Carbon disulfide	100		100		51-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		100		70-130	0		20
Methylene chloride	100		100		70-130	0		20
Acetone	110		110		58-148	0		20
trans-1,2-Dichloroethene	97		100		70-130	3		20
Methyl Acetate	96		100		70-130	4		20
Methyl tert butyl ether	89		90		63-130	1		20
1,1-Dichloroethane	110		110		70-130	0		20
cis-1,2-Dichloroethene	96		100		70-130	4		20
Cyclohexane	110		110		70-130	0		20
Bromochloromethane	98		99		70-130	1		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	94		94		63-132	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
2-Butanone	120		100		63-138	18		20
Benzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2423395
Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1916175-3 WG1916175-4								
1,2-Dichloroethane	100		100		70-130	0		20
Methyl cyclohexane	89		89		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Bromodichloromethane	98		100		67-130	2		20
cis-1,3-Dichloropropene	94		95		70-130	1		20
Toluene	100		100		70-130	0		20
Tetrachloroethene	98		100		70-130	2		20
4-Methyl-2-pentanone	89		90		59-130	1		20
trans-1,3-Dichloropropene	91		92		70-130	1		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Dibromochloromethane	93		94		63-130	1		20
1,2-Dibromoethane	99		100		70-130	1		20
2-Hexanone	95		93		57-130	2		20
Chlorobenzene	98		99		75-130	1		20
Ethylbenzene	100		100		70-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		95		70-130	0		20
Styrene	95		95		70-130	0		20
Bromoform	87		87		54-136	0		20
Isopropylbenzene	97		97		70-130	0		20
1,3-Dichlorobenzene	98		95		70-130	3		20
1,4-Dichlorobenzene	97		96		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2423395

Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1916175-3 WG1916175-4								
1,2-Dichlorobenzene	98		94		70-130	4		20
1,2-Dibromo-3-chloropropane	90		86		41-144	5		20
1,2,4-Trichlorobenzene	89		90		70-130	1		20
1,2,3-Trichlorobenzene	93		92		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		96		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	105		101		70-130
Dibromofluoromethane	101		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2423395

Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1916591-3 WG1916591-4								
1,4-Dioxane	100		100		70-130	0		25
1,1,2,2-Tetrachloroethane	112		112		70-130	0		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		117		70-130
4-Bromofluorobenzene	102		102		70-130

SEMIVOLATILES

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

SAMPLE RESULTS

Lab ID: L2423395-01
Client ID: SW-1
Sample Location: PHILADELPHIA, PA

Date Collected: 04/29/24 06:50
Date Received: 04/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 05/05/24 16:05
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 05/04/24 04:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzaldehyde	ND		ug/l	5.0	0.53	1
Phenol	ND		ug/l	5.0	0.57	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Acetophenone	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
Nitrobenzene	ND		ug/l	1.4	0.77	1
Isophorone	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	5.0	0.85	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
Naphthalene	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	3.7	1.1	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Caprolactam	ND		ug/l	10	3.3	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.44	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Biphenyl	ND		ug/l	2.0	0.46	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2423395

Project Number: 30108678 **Report Date:** 05/13/24

SAMPLE RESULTS

Lab ID: L2423395-01 Date Collected: 04/29/24 06:50

Client ID: SW-1 Date Received: 04/29/24

Sample Location: PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthylene	ND		ug/l	2.0	0.46	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
Acenaphthene	ND		ug/l	2.0	0.53	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Fluorene	ND		ug/l	2.0	0.41	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Atrazine	ND		ug/l	3.0	0.76	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Anthracene	ND		ug/l	2.0	0.33	1
Carbazole	ND		ug/l	2.0	0.49	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Fluoranthene	ND		ug/l	2.0	0.26	1
Pyrene	ND		ug/l	2.0	0.28	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
Chrysene	ND		ug/l	1.4	0.34	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	98		10-120
4-Terphenyl-d14	80		41-149

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

SAMPLE RESULTS

Lab ID: L2423395-01
Client ID: SW-1
Sample Location: PHILADELPHIA, PA

Date Collected: 04/29/24 06:50
Date Received: 04/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/04/24 19:48
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 05/04/24 04:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02	1
n-Nitrosodi-n-propylamine	ND		ug/l	0.10	0.01	1
Hexachloroethane	ND		ug/l	0.20	0.06	1
Hexachlorobenzene	ND		ug/l	0.02	0.01	1
Pentachlorophenol	ND		ug/l	0.10	0.01	1
Benzo(a)anthracene	ND		ug/l	0.05	0.02	1
Bis(2-ethylhexyl)phthalate	0.56	J	ug/l	1.0	0.51	1
Benzo(b)fluoranthene	0.01	J	ug/l	0.05	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	ND		ug/l	0.05	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	**123**	Q	10-120
4-Terphenyl-d14	66		41-149

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/05/24 12:04
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 05/04/24 04:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1916985-1					
Benzaldehyde	ND		ug/l	5.0	0.53
Phenol	ND		ug/l	5.0	0.57
2-Chlorophenol	ND		ug/l	2.0	0.48
2-Methylphenol	ND		ug/l	5.0	0.49
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Acetophenone	ND		ug/l	5.0	0.53
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
Nitrobenzene	ND		ug/l	1.4	0.77
Isophorone	ND		ug/l	5.0	1.2
2-Nitrophenol	ND		ug/l	5.0	0.85
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
Naphthalene	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	3.7	1.1
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Caprolactam	ND		ug/l	10	3.3
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Methylnaphthalene	ND		ug/l	2.0	0.45
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1.7	0.44
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Biphenyl	ND		ug/l	2.0	0.46
2-Chloronaphthalene	ND		ug/l	2.0	0.44
2-Nitroaniline	ND		ug/l	5.0	0.50
Dimethyl phthalate	ND		ug/l	5.0	1.8
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Acenaphthylene	ND		ug/l	2.0	0.46

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/05/24 12:04
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 05/04/24 04:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1916985-1					
3-Nitroaniline	ND		ug/l	5.0	0.81
Acenaphthene	ND		ug/l	2.0	0.53
2,4-Dinitrophenol	ND		ug/l	20	6.6
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
Dibenzofuran	ND		ug/l	2.0	0.50
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84
Diethyl phthalate	ND		ug/l	5.0	0.38
Fluorene	ND		ug/l	2.0	0.41
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Nitroaniline	ND		ug/l	5.0	0.80
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
NDPA/DPA	ND		ug/l	2.0	0.42
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Atrazine	ND		ug/l	3.0	0.76
Phenanthrene	ND		ug/l	2.0	0.33
Anthracene	ND		ug/l	2.0	0.33
Carbazole	ND		ug/l	2.0	0.49
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Fluoranthene	ND		ug/l	2.0	0.26
Pyrene	ND		ug/l	2.0	0.28
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
Chrysene	ND		ug/l	1.4	0.34
Di-n-octylphthalate	ND		ug/l	5.0	1.3

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/05/24 12:04
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 05/04/24 04:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1916985-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	78		41-149

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 05/04/24 17:35
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 05/04/24 04:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1916986-1					
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.02
n-Nitrosodi-n-propylamine	ND		ug/l	0.10	0.01
Hexachloroethane	ND		ug/l	0.20	0.06
Hexachlorobenzene	0.02	J	ug/l	0.02	0.01
Pentachlorophenol	0.07	J	ug/l	0.10	0.01
Benzo(a)anthracene	ND		ug/l	0.05	0.02
Bis(2-ethylhexyl)phthalate	ND		ug/l	1.0	0.51
Benzo(b)fluoranthene	0.02	J	ug/l	0.05	0.01
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Indeno(1,2,3-cd)pyrene	0.01	J	ug/l	0.10	0.01
Dibenzo(a,h)anthracene	0.01	J	ug/l	0.05	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	109		10-120
4-Terphenyl-d14	67		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2423395
Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1916985-2 WG1916985-3								
Benzaldehyde	**143**	Q	**151**	Q	40-140	5		30
Phenol	52		58		12-110	11		30
2-Chlorophenol	78		83		27-123	6		30
2-Methylphenol	73		82		30-130	12		30
Bis(2-chloroisopropyl)ether	69		74		40-140	7		30
Acetophenone	74		81		39-129	9		30
3-Methylphenol/4-Methylphenol	75		84		30-130	11		30
Nitrobenzene	76		83		40-140	9		30
Isophorone	77		85		40-140	10		30
2-Nitrophenol	79		88		30-130	11		30
2,4-Dimethylphenol	86		94		30-130	9		30
Bis(2-chloroethoxy)methane	77		83		40-140	8		30
2,4-Dichlorophenol	77		88		30-130	13		30
Naphthalene	65		74		40-140	13		30
4-Chloroaniline	69		79		40-140	14		30
Hexachlorobutadiene	68		76		40-140	11		30
Caprolactam	36		47		10-130	27		30
p-Chloro-m-cresol	73		92		23-97	23		30
2-Methylnaphthalene	67		76		40-140	13		30
Hexachlorocyclopentadiene	71		85		40-140	18		30
1,2,4,5-Tetrachlorobenzene	70		80		2-134	13		30
2,4,6-Trichlorophenol	70		88		30-130	23		30
2,4,5-Trichlorophenol	73		90		30-130	21		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2423395

Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1916985-2 WG1916985-3								
Biphenyl	68		79		40-140	15		30
2-Chloronaphthalene	69		79		40-140	14		30
2-Nitroaniline	79		94		52-143	17		30
Dimethyl phthalate	73		90		40-140	21		30
2,6-Dinitrotoluene	80		93		40-140	15		30
Acenaphthylene	65		79		45-123	19		30
3-Nitroaniline	70		85		25-145	19		30
Acenaphthene	68		83		37-111	20		30
2,4-Dinitrophenol	80		92		20-130	14		30
4-Nitrophenol	77		**97**	Q	10-80	23		30
2,4-Dinitrotoluene	74		91		48-143	21		30
Dibenzofuran	71		82		40-140	14		30
2,3,4,6-Tetrachlorophenol	79		97		54-145	20		30
Diethyl phthalate	76		95		40-140	22		30
Fluorene	68		84		40-140	21		30
4-Chlorophenyl phenyl ether	66		83		40-140	23		30
4-Nitroaniline	70		89		51-143	24		30
4,6-Dinitro-o-cresol	80		98		20-164	20		30
NDPA/DPA	72		87		40-140	19		30
4-Bromophenyl phenyl ether	71		89		40-140	23		30
Atrazine	84		103		40-140	20		30
Phenanthrene	67		83		40-140	21		30
Anthracene	69		86		40-140	22		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2423395

Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1916985-2 WG1916985-3								
Carbazole	68		86		55-144	23		30
Di-n-butylphthalate	77		100		40-140	26		30
Fluoranthene	67		83		40-140	21		30
Pyrene	67		85		26-127	24		30
Butyl benzyl phthalate	77		97		40-140	23		30
3,3'-Dichlorobenzidine	68		82		40-140	19		30
Chrysene	68		79		40-140	15		30
Di-n-octylphthalate	77		92		40-140	18		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		71		21-120
Phenol-d6	54		62		10-120
Nitrobenzene-d5	78		83		23-120
2-Fluorobiphenyl	66		81		15-120
2,4,6-Tribromophenol	78		99		10-120
4-Terphenyl-d14	64		80		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2423395
Report Date: 05/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1916986-2 WG1916986-3								
Bis(2-chloroethyl)ether	66		73		40-140	10		40
n-Nitrosodi-n-propylamine	81		92		40-140	13		40
Hexachloroethane	69		78		40-140	12		40
Hexachlorobenzene	86		98		40-140	13		40
Pentachlorophenol	92		**109**	Q	9-103	17		40
Benzo(a)anthracene	89		103		40-140	15		40
Bis(2-ethylhexyl)phthalate	112		140		40-140	22		40
Benzo(b)fluoranthene	76		87		40-140	13		40
Benzo(k)fluoranthene	74		82		40-140	10		40
Benzo(a)pyrene	74		84		40-140	13		40
Indeno(1,2,3-cd)pyrene	75		88		40-140	16		40
Dibenzo(a,h)anthracene	68		79		40-140	15		40
Benzo(ghi)perylene	67		79		40-140	16		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		70		21-120
Phenol-d6	54		61		10-120
Nitrobenzene-d5	78		89		23-120
2-Fluorobiphenyl	62		70		15-120
2,4,6-Tribromophenol	98		116		10-120
4-Terphenyl-d14	51		58		41-149

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2423395
Report Date: 05/13/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2423395-01A	Vial HCl preserved	A	NA		2.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2423395-01B	Vial HCl preserved	A	NA		2.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2423395-01C	Vial HCl preserved	A	NA		2.7	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2423395-01D	Amber 250ml unpreserved	A	9	9	2.7	Y	Absent		PA-8270SIM-LVI(7),PA-8270-LVI(7)
L2423395-01E	Amber 250ml unpreserved	A	10	10	2.7	Y	Absent		PA-8270SIM-LVI(7),PA-8270-LVI(7)
L2423395-02A	5 gram Encore Sampler	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L2423395-02B	5 gram Encore Sampler	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L2423395-02C	5 gram Encore Sampler	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L2423395-02D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		-
L2423395-02E	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		HOLD-WETCHEM()
L2423395-02F	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L2423395-02X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L2423395-02X1	Vial unpreserved Extracts	A	NA		2.7	Y	Absent		-
L2423395-02Y	Vial Water preserved split	A	NA		2.7	Y	Absent	30-APR-24 13:35	HOLD-8260HLW(14)
L2423395-02Z	Vial Water preserved split	A	NA		2.7	Y	Absent	30-APR-24 13:35	HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2423395
Project Number:	30108678	**Report Date:**	05/13/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2423395
Project Number:	30108678	**Report Date:**	05/13/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2423395
Project Number:	30108678	**Report Date:**	05/13/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2423395
Project Number:	30108678	**Report Date:**	05/13/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/30/24

ALPHA Job #: L2423395

Client Information
Client: Arcadis
Address: 1 Hartford Way Ste 5 Willingboro #3
Phone: 908-928-1000
Fax:
Email: larry.bint@arcadis.com

Project Information
Project Name: Allynce Site
Project Location: Philly, PA
Project #: 30108678
(Use Project name as Project #)
Project Manager: Larry Bint
ALPHAQuote #:

Turn-Around Time
Standard
Rush (only if pre approved)
Due Date:
# of Days:

Deliverables
NJ Full / Reduced
EQuIS (1 File) EQuIS (4 File)
Other

Regulatory Requirement
SRS Residential/Non Residential
SRS Impact to Groundwater
NJ Ground Water Quality Standards
NJ IGW SPLP Leachate Criteria
Other

Billing Information
Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
Category 1
Category 2

For VOC, selection is REQUIRED:
1,4-Dioxane
8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC + 10	SVOC	Hold	Total # Bottles	Sample Specific Comments
23395-01	GW-1	4/29/24	0650	AQ	MH	X	X		6	
-02	Grab-1	4/29/24	0700	Soil	MH			X	1	Hold

Container Type: A A
Preservative: B A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Mark Hilliard	4/29/24 1640	Alicia A. AAL	4/29/24 16:30
Alicia A. AAL	4/29/24 18:58		4/29/24 18:55
	4/29/24	AM	4/29 22:00
AM	4/30 1:00		4/30/24 0102

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTITUTIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2429997
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678.03C
Report Date:	06/04/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429997
Report Date: 06/04/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2429997-01	MW-7	WATER	PHILA., PA	05/30/24 11:20	05/30/24
L2429997-02	MW-9	WATER	PHILA., PA	05/30/24 15:00	05/30/24
L2429997-03	MW-3	WATER	PHILA., PA	05/30/24 13:05	05/30/24
L2429997-04	MW-4	WATER	PHILA., PA	05/30/24 14:40	05/30/24
L2429997-05	DUP-GW	WATER	PHILA., PA	05/30/24 00:00	05/30/24
L2429997-06	FIELD BLANK	WATER	PHILA., PA	05/30/24 15:15	05/30/24

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2429997
Project Number:	30108678.03C	**Report Date:**	06/04/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2429997
Project Number:	30108678.03C	**Report Date:**	06/04/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2429997-02: The sample has an elevated detection limit due to the prep dilution required by the sample matrix.

Dissolved Metals

L2429997-01, -02, -04, -05 and -06: The Dissolved Hexavalent Chromium result is greater than the Dissolved Chromium result. The sample containers were verified as being labeled correctly by the laboratory. Samples were field filtered.

The WG1928850-3 MS recovery for chromium (0%), performed on L2429997-01, does not apply because the sample concentration is greater than four times the spike amount added.

Hexavalent Chromium

L2429997-02: The filtered Hexavalent Chromium result is higher than the unfiltered result. Due to the expiration of the method required holding time, no further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Caitlin Walukevich

Title: Technical Director/Representative

Date: 06/04/24

METALS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429997
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429997-01
Client ID: MW-7
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 05/30/24 11:20
Date Received: 05/30/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	19380		ug/l	20.00	3.560	20	06/03/24 07:34	06/04/24 12:08	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	20600		ug/l	10.00	1.780	10	06/03/24 09:15	06/04/24 13:50	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429997
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429997-02
Client ID: MW-9
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 05/30/24 15:00
Date Received: 05/30/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	44200		ug/l	40.00	7.120	20	06/03/24 07:34	06/04/24 13:55	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	646.8		ug/l	1.000	0.1780	1	06/03/24 09:15	06/04/24 10:58	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429997
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429997-03
Client ID: MW-3
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 05/30/24 13:05
Date Received: 05/30/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	23140		ug/l	20.00	3.560	20	06/03/24 07:34	06/04/24 13:59	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	22700		ug/l	20.00	3.560	20	06/03/24 09:15	06/04/24 12:22	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429997
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429997-04
Client ID: MW-4
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 05/30/24 14:40
Date Received: 05/30/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	24060		ug/l	20.00	3.560	20	06/03/24 07:34	06/04/24 14:04	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	21100		ug/l	20.00	3.560	20	06/03/24 09:15	06/04/24 12:13	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429997
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429997-05
Client ID: DUP-GW
Sample Location: PHILA., PA
Date Collected: 05/30/24 00:00
Date Received: 05/30/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	22230		ug/l	20.00	3.560	20	06/03/24 07:34	06/04/24 14:09	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	19090		ug/l	20.00	3.560	20	06/03/24 09:15	06/04/24 12:17	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429997
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429997-06
Client ID: FIELD BLANK
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 05/30/24 15:15
Date Received: 05/30/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	ND		ug/l	1.000	0.1780	1	06/03/24 07:34	06/04/24 13:35	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2429997

Project Number: 30108678.03C **Report Date:** 06/04/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1928761-1										
Chromium, Total	ND		ug/l	1.000	0.1780	1	06/03/24 07:34	06/03/24 11:33	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1928850-1										
Chromium, Dissolved	ND		ug/l	1.000	0.1780	1	06/03/24 09:15	06/04/24 10:48	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2429997

Report Date: 06/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1928761-2								
Chromium, Total	112		-		80-120	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1928850-2								
Chromium, Dissolved	106		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429997
Report Date: 06/04/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1928761-3 QC Sample: L2429242-40 Client ID: MS Sample												
Chromium, Total	ND	200	233.8	117		-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1928850-3 QC Sample: L2429997-01 Client ID: MW-7												
Chromium, Dissolved	20600	200	18590	**0**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2429997

Report Date: 06/04/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1928850-4 QC Sample: L2429997-01 Client ID: MW-7						
Chromium, Dissolved	20600	19310	ug/l	6		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429997
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429997-01
Client ID: MW-7
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water
Date Collected: 05/30/24 11:20
Date Received: 05/30/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	23.1		mg/l	2.00	0.600	200	05/31/24 11:00	05/31/24 11:16	1,7196A	JBB
Chromium, Hexavalent	18300		ug/l	2000	600.	200	05/31/24 11:00	05/31/24 11:19	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429997
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429997-02
Client ID: MW-9
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water
Date Collected: 05/30/24 15:00
Date Received: 05/30/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	1.14		mg/l	1.00	0.300	100	05/31/24 11:00	05/31/24 11:17	1,7196A	JBB
Chromium, Hexavalent	1960		ug/l	500	150.	50	05/31/24 11:00	05/31/24 11:23	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2429997
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429997-03
Client ID: MW-3
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water
Date Collected: 05/30/24 13:05
Date Received: 05/30/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	24.8		mg/l	2.00	0.600	200	05/31/24 11:00	05/31/24 11:18	1,7196A	JBB
Chromium, Hexavalent	21900		ug/l	2000	600.	200	05/31/24 11:00	05/31/24 11:23	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429997
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429997-04
Client ID: MW-4
Sample Location: PHILA., PA

Date Collected: 05/30/24 14:40
Date Received: 05/30/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	30.8		mg/l	2.00	0.600	200	05/31/24 11:00	05/31/24 11:18	1,7196A	JBB
Chromium, Hexavalent	23500		ug/l	2000	600.	200	05/31/24 11:00	05/31/24 11:24	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429997
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429997-05
Client ID: DUP-GW
Sample Location: PHILA., PA

Date Collected: 05/30/24 00:00
Date Received: 05/30/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	22.9		mg/l	2.00	0.600	200	05/31/24 11:00	05/31/24 11:16	1,7196A	JBB
Chromium, Hexavalent	19200		ug/l	2000	600.	200	05/31/24 11:00	05/31/24 11:19	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429997
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2429997-06
Client ID: FIELD BLANK
Sample Location: PHILA., PA

Date Collected: 05/30/24 15:15
Date Received: 05/30/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	05/31/24 11:00	05/31/24 11:17	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2429997

Project Number: 30108678.03C **Report Date:** 06/04/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1928103-1										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	05/31/24 11:00	05/31/24 11:18	1,7196A	JBB
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1928104-1										
Chromium, Hexavalent (Unfiltered)	ND		mg/l	0.010	0.003	1	05/31/24 11:00	05/31/24 11:15	1,7196A	JBB

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2429997

Report Date: 06/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG1928103-2								
Chromium, Hexavalent	95		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1928104-2								
Chromium, Hexavalent (Unfiltered)	96		-		85-115	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429997
Report Date: 06/04/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1928103-4 QC Sample: L2429997-02 Client ID: MW-9												
Chromium, Hexavalent	1960	50000	6980	100		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1928104-4 QC Sample: L2429997-02 Client ID: MW-9												
Chromium, Hexavalent (Unfiltered)	1.14	10	10.7	95		-	-		85-115	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2429997

Report Date: 06/04/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1928103-3 QC Sample: L2429997-01 Client ID: MW-7						
Chromium, Hexavalent	18300	18200	ug/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1928104-3 QC Sample: L2429997-01 Client ID: MW-7						
Chromium, Hexavalent (Unfiltered)	23.1	22.9	mg/l	1		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429997
Report Date: 06/04/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2429997-01A	Plastic 250ml unpreserved	B	12	12	2.3	Y	Absent		HEXCR-7196-PPB(1)
L2429997-01B	Plastic 250ml unpreserved	B	12	12	2.3	Y	Absent		HEXCR-7196-UF(1)
L2429997-01C	Plastic 250ml unpreserved	B	12	12	2.3	Y	Absent		ARCHIVE()
L2429997-01D	Plastic 250ml HNO3 preserved	B	<2	<2	2.3	Y	Absent		CR-6020S-PPB(180)
L2429997-01E	Plastic 250ml HNO3 preserved	B	<2	<2	2.3	Y	Absent		CR-6020T-PPB(180)
L2429997-02A	Plastic 250ml unpreserved	B	13	13	2.3	Y	Absent		HEXCR-7196-PPB(1)
L2429997-02B	Plastic 250ml unpreserved	B	13	13	2.3	Y	Absent		HEXCR-7196-UF(1)
L2429997-02C	Plastic 250ml unpreserved	B	13	13	2.3	Y	Absent		ARCHIVE()
L2429997-02D	Plastic 250ml HNO3 preserved	B	<2	<2	2.3	Y	Absent		CR-6020S-PPB(180)
L2429997-02E	Plastic 250ml HNO3 preserved	B	<2	<2	2.3	Y	Absent		CR-6020T-PPB(180)
L2429997-03A	Plastic 250ml unpreserved	B	8	8	2.3	Y	Absent		HEXCR-7196-PPB(1)
L2429997-03B	Plastic 250ml unpreserved	B	8	8	2.3	Y	Absent		HEXCR-7196-UF(1)
L2429997-03C	Plastic 250ml unpreserved	B	8	8	2.3	Y	Absent		ARCHIVE()
L2429997-03D	Plastic 250ml HNO3 preserved	B	<2	<2	2.3	Y	Absent		CR-6020S-PPB(180)
L2429997-03E	Plastic 250ml HNO3 preserved	B	<2	<2	2.3	Y	Absent		CR-6020T-PPB(180)
L2429997-04A	Plastic 250ml unpreserved	B	13	13	2.3	Y	Absent		HEXCR-7196-PPB(1)
L2429997-04B	Plastic 250ml unpreserved	B	13	13	2.3	Y	Absent		HEXCR-7196-UF(1)
L2429997-04C	Plastic 250ml unpreserved	B	13	13	2.3	Y	Absent		ARCHIVE()
L2429997-04D	Plastic 250ml HNO3 preserved	B	<2	<2	2.3	Y	Absent		CR-6020S-PPB(180)
L2429997-04E	Plastic 250ml HNO3 preserved	B	<2	<2	2.3	Y	Absent		CR-6020T-PPB(180)
L2429997-05A	Plastic 250ml unpreserved	B	12	12	2.3	Y	Absent		HEXCR-7196-PPB(1)
L2429997-05B	Plastic 250ml unpreserved	B	12	12	2.3	Y	Absent		HEXCR-7196-UF(1)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2429997
Report Date: 06/04/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2429997-05C	Plastic 250ml unpreserved	B	12	12	2.3	Y	Absent		ARCHIVE()
L2429997-05D	Plastic 250ml HNO3 preserved	B	<2	<2	2.3	Y	Absent		CR-6020S-PPB(180)
L2429997-05E	Plastic 250ml HNO3 preserved	B	<2	<2	2.3	Y	Absent		CR-6020T-PPB(180)
L2429997-06A	Plastic 250ml unpreserved	B	7	7	2.3	Y	Absent		HEXCR-7196-PPB(1)
L2429997-06B	Plastic 250ml HNO3 preserved	B	<2	<2	2.3	Y	Absent		CR-6020T-PPB(180)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2429997
Project Number:	30108678.03C	**Report Date:**	06/04/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2429997
Project Number:	30108678.03C	**Report Date:**	06/04/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2429997
Project Number:	30108678.03C	**Report Date:**	06/04/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2429997
Project Number:	30108678.03C	**Report Date:**	06/04/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 5/31/24

ALPHA Job #: L2429997 (5/31 MK) ~~L2429996~~

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Arcadis
Address: 1 Harvard Way Ste 5
Hillsborough NJ
Phone: 908-526-1616
Fax: Matt.hilish@arcadis.com
Email: Larry.brant@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance Tank Farm
Project Location: Phila, PA
Project #: 30108678.03C
Project Manager: Larry Brant
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due: 7 day Time:

Report Information • Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Hex Cr	Hex Cr Field Filtered	Total Cr	Total Cr Field Filtered	SAMPLE HANDLING	TOTAL # BOTTLES
29997-01	MW-7	5/30/24	1120	AQ		X	X	X	X		
02	MW-9		1500			X	X	X	X		
03	MW-3		1305			X	X	X	X		
04	MW-4		1440			X	X	X	X		
05	~~[illegible]~~ DUP-GW					X	X	X	X		
06	Field Blank		1515			X		X			

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)
Sample Specific Comments

Container Type											
Preservative											

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	5/30/24 1635	[illegible]	5/30/24 1635
[illegible]	5/30/24 1800	[illegible]	5/30/24 1800
[illegible]	5/30/24 2100	[illegible]	MAY 30 2024 2015
Anthony Green	5/31/24 0200	Anthony Green	5/31/24 0200

5/31/24 0405
5/31/24 0405

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L2432185
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678.03C
Report Date:	06/12/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2432185
Report Date: 06/12/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2432185-01	TW-513	WATER	PHILA., PA	06/07/24 14:50	06/07/24
L2432185-02	TW-512	WATER	PHILA., PA	06/07/24 14:20	06/07/24
L2432185-03	TW-505	WATER	PHILA., PA	06/07/24 11:25	06/07/24
L2432185-04	TW-506	WATER	PHILA., PA	06/07/24 10:25	06/07/24
L2432185-05	TW-509	WATER	PHILA., PA	06/07/24 12:00	06/07/24
L2432185-06	TW-511	WATER	PHILA., PA	06/07/24 13:40	06/07/24
L2432185-07	DUP-GW	WATER	PHILA., PA	06/07/24 00:00	06/07/24
L2432185-08	TW-514	WATER	PHILA., PA	06/07/24 15:15	06/07/24

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2432185
Project Number:	30108678.03C	**Report Date:**	06/12/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2432185
Project Number:	30108678.03C	**Report Date:**	06/12/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2432185-08: A sample identified as "TW-514" was received, but not listed on the Chain of Custody. At the client's request, this sample was analyzed.

L2432185-08: The collection time was specified by the client.

Total Metals

L2432185-01 through -08: The sample has an elevated detection limit due to the dilution required by the sample matrix.

L2432185-06: The sample has an elevated detection limit due to the prep dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 06/12/24

METALS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-01
Client ID: TW-513
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 06/07/24 14:50
Date Received: 06/07/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	92.67		ug/l	5.000	0.8900	5	06/11/24 08:28	06/12/24 09:36	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	2.714		ug/l	1.000	0.1780	1	06/10/24 14:57	06/11/24 22:06	EPA 3005A	1,6020B	MRC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-02
Client ID: TW-512
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 06/07/24 14:20
Date Received: 06/07/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	45.39		ug/l	5.000	0.8900	5	06/11/24 08:28	06/12/24 09:41	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	3.496		ug/l	1.000	0.1780	1	06/10/24 14:57	06/11/24 22:11	EPA 3005A	1,6020B	MRC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-03
Client ID: TW-505
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 06/07/24 11:25
Date Received: 06/07/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	7744.		ug/l	100.0	17.80	100	06/11/24 08:28	06/12/24 10:57	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	137.9		ug/l	1.000	0.1780	1	06/10/24 14:57	06/11/24 22:15	EPA 3005A	1,6020B	MRC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-04
Client ID: TW-506
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 06/07/24 10:25
Date Received: 06/07/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	8.149		ug/l	5.000	0.8900	5	06/11/24 08:28	06/12/24 09:50	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.2720	J	ug/l	1.000	0.1780	1	06/10/24 14:57	06/11/24 22:20	EPA 3005A	1,6020B	MRC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-05
Client ID: TW-509
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 06/07/24 12:00
Date Received: 06/07/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	15.98		ug/l	5.000	0.8900	5	06/11/24 08:28	06/12/24 09:55	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	7.087		ug/l	1.000	0.1780	1	06/10/24 14:57	06/11/24 22:44	EPA 3005A	1,6020B	MRC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-06
Client ID: TW-511
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 06/07/24 13:40
Date Received: 06/07/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	13440		ug/l	200.0	35.60	100	06/11/24 08:28	06/12/24 11:01	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	3316.		ug/l	100.0	17.80	100	06/10/24 14:57	06/12/24 08:31	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-07
Client ID: DUP-GW
Sample Location: PHILA., PA
Date Collected: 06/07/24 00:00
Date Received: 06/07/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	6.353		ug/l	5.000	0.8900	5	06/11/24 08:28	06/12/24 10:47	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.8442	J	ug/l	1.000	0.1780	1	06/10/24 14:57	06/11/24 23:12	EPA 3005A	1,6020B	MRC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-08
Client ID: TW-514
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 06/07/24 15:15
Date Received: 06/07/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	62.00		ug/l	5.000	0.8900	5	06/11/24 08:28	06/12/24 10:52	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.7002	J	ug/l	1.000	0.1780	1	06/10/24 14:57	06/11/24 23:17	EPA 3005A	1,6020B	MRC

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1932106-1										
Chromium, Dissolved	ND		ug/l	1.000	0.1780	1	06/10/24 14:57	06/11/24 20:41	1,6020B	MRC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1932479-1										
Chromium, Total	ND		ug/l	1.000	0.1780	1	06/11/24 08:28	06/12/24 07:16	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2432185

Report Date: 06/12/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1932106-2								
Chromium, Dissolved	103		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1932479-2								
Chromium, Total	99		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2432185
Report Date: 06/12/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1932106-3 QC Sample: L2430865-07 Client ID: MS Sample												
Chromium, Dissolved	124.7	200	335.9	106		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1932479-3 QC Sample: L2432114-01 Client ID: MS Sample												
Chromium, Total	ND	200	199.4	100		-	-		75-125	-		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-01
Client ID: TW-513
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water
Date Collected: 06/07/24 14:50
Date Received: 06/07/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	ND		mg/l	0.010	0.003	1	06/08/24 09:00	06/08/24 09:24	1,7196A	JBB
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	06/08/24 09:00	06/08/24 09:17	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-02
Client ID: TW-512
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water
Date Collected: 06/07/24 14:20
Date Received: 06/07/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	ND		mg/l	0.010	0.003	1	06/08/24 09:00	06/08/24 09:25	1,7196A	JBB
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	06/08/24 09:00	06/08/24 09:18	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-03
Client ID: TW-505
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water

Date Collected: 06/07/24 11:25
Date Received: 06/07/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	0.005	J	mg/l	0.010	0.003	1	06/08/24 09:00	06/08/24 09:26	1,7196A	JBB
Chromium, Hexavalent	3.00	J	ug/l	10.0	3.00	1	06/08/24 09:00	06/08/24 09:19	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-04
Client ID: TW-506
Sample Location: PHILA., PA

Date Collected: 06/07/24 10:25
Date Received: 06/07/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	0.018		mg/l	0.010	0.003	1	06/08/24 09:00	06/08/24 09:26	1,7196A	JBB
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	06/08/24 09:00	06/08/24 09:19	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-05
Client ID: TW-509
Sample Location: PHILA., PA

Date Collected: 06/07/24 12:00
Date Received: 06/07/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	0.019		mg/l	0.010	0.003	1	06/08/24 09:00	06/08/24 09:26	1,7196A	JBB
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	06/08/24 09:00	06/08/24 09:19	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-06
Client ID: TW-511
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water
Date Collected: 06/07/24 13:40
Date Received: 06/07/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	2.46		mg/l	0.100	0.030	10	06/08/24 09:00	06/08/24 09:27	1,7196A	JBB
Chromium, Hexavalent	1330		ug/l	50.0	15.0	5	06/08/24 09:00	06/08/24 09:20	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C
Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-07
Client ID: DUP-GW
Sample Location: PHILA., PA
Sample Depth:
Matrix: Water
Date Collected: 06/07/24 00:00
Date Received: 06/07/24
Field Prep: Refer to COC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	0.007	J	mg/l	0.010	0.003	1	06/08/24 09:00	06/08/24 09:30	1,7196A	JBB
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	06/08/24 09:00	06/08/24 09:22	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2432185
Report Date: 06/12/24

SAMPLE RESULTS

Lab ID: L2432185-08
Client ID: TW-514
Sample Location: PHILA., PA

Date Collected: 06/07/24 15:15
Date Received: 06/07/24
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	0.030		mg/l	0.010	0.003	1	06/08/24 09:00	06/08/24 09:30	1,7196A	JBB
Chromium, Hexavalent	3.00	J	ug/l	10.0	3.00	1	06/08/24 09:00	06/08/24 09:22	1,7196A	JBB

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2432185

Project Number: 30108678.03C **Report Date:** 06/12/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1931534-1										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	06/08/24 09:00	06/08/24 09:16	1,7196A	JBB
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1931535-1										
Chromium, Hexavalent (Unfiltered)	ND		mg/l	0.010	0.003	1	06/08/24 09:00	06/08/24 09:23	1,7196A	JBB

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.03C

Lab Number: L2432185

Report Date: 06/12/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1931534-2								
Chromium, Hexavalent	95		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1931535-2								
Chromium, Hexavalent (Unfiltered)	94		-		85-115	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2432185
Report Date: 06/12/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1931534-4 QC Sample: L2432185-08 Client ID: TW-514												
Chromium, Hexavalent	3.00J	100	86.0	86		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1931535-4 QC Sample: L2432185-06 Client ID: TW-511												
Chromium, Hexavalent (Unfiltered)	2.46	1	3.49	103		-	-		85-115	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2432185
Report Date: 06/12/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1931534-3 QC Sample: L2432185-01 Client ID: TW-513						
Chromium, Hexavalent	ND	ND	ug/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1931535-3 QC Sample: L2432185-01 Client ID: TW-513						
Chromium, Hexavalent (Unfiltered)	ND	0.050	mg/l	NC		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2432185
Report Date: 06/12/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2432185-01A	Plastic 250ml unpreserved	B	7	7	3.5	Y	Absent		HEXCR-7196-PPB(1)
L2432185-01B	Plastic 250ml unpreserved	B	7	7	3.5	Y	Absent		HEXCR-7196-UF(1)
L2432185-01C	Plastic 250ml unpreserved	B	7	7	3.5	Y	Absent		ARCHIVE()
L2432185-01D	Plastic 250ml HNO3 preserved	B	<2	<2	3.5	Y	Absent		CR-6020S-PPB(180)
L2432185-01E	Plastic 250ml HNO3 preserved	B	<2	<2	3.5	Y	Absent		CR-6020T-PPB(180)
L2432185-02A	Plastic 250ml unpreserved	B	7	7	3.5	Y	Absent		HEXCR-7196-PPB(1)
L2432185-02B	Plastic 250ml unpreserved	B	7	7	3.5	Y	Absent		HEXCR-7196-UF(1)
L2432185-02C	Plastic 250ml unpreserved	B	7	7	3.5	Y	Absent		ARCHIVE()
L2432185-02D	Plastic 250ml HNO3 preserved	B	<2	<2	3.5	Y	Absent		CR-6020S-PPB(180)
L2432185-02E	Plastic 250ml HNO3 preserved	B	<2	<2	3.5	Y	Absent		CR-6020T-PPB(180)
L2432185-03A	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		HEXCR-7196-PPB(1)
L2432185-03B	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		HEXCR-7196-UF(1)
L2432185-03C	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		ARCHIVE()
L2432185-03D	Plastic 250ml HNO3 preserved	C	<2	<2	3.7	Y	Absent		CR-6020S-PPB(180)
L2432185-03E	Plastic 250ml HNO3 preserved	C	<2	<2	3.7	Y	Absent		CR-6020T-PPB(180)
L2432185-04A	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		HEXCR-7196-PPB(1)
L2432185-04B	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		HEXCR-7196-UF(1)
L2432185-04C	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		ARCHIVE()
L2432185-04D	Plastic 250ml HNO3 preserved	C	<2	<2	3.7	Y	Absent		CR-6020S-PPB(180)
L2432185-04E	Plastic 250ml HNO3 preserved	C	<2	<2	3.7	Y	Absent		CR-6020T-PPB(180)
L2432185-05A	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		HEXCR-7196-PPB(1)
L2432185-05B	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		HEXCR-7196-UF(1)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.03C

Lab Number: L2432185
Report Date: 06/12/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2432185-05C	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		ARCHIVE()
L2432185-05D	Plastic 250ml HNO3 preserved	C	<2	<2	3.7	Y	Absent		CR-6020S-PPB(180)
L2432185-05E	Plastic 250ml HNO3 preserved	C	<2	<2	3.7	Y	Absent		CR-6020T-PPB(180)
L2432185-06A	Plastic 250ml unpreserved	C	13	13	3.7	Y	Absent		HEXCR-7196-PPB(1)
L2432185-06B	Plastic 250ml unpreserved	C	13	13	3.7	Y	Absent		HEXCR-7196-UF(1)
L2432185-06C	Plastic 250ml unpreserved	C	13	13	3.7	Y	Absent		ARCHIVE()
L2432185-06D	Plastic 250ml HNO3 preserved	C	<2	<2	3.7	Y	Absent		CR-6020S-PPB(180)
L2432185-06E	Plastic 250ml HNO3 preserved	C	<2	<2	3.7	Y	Absent		CR-6020T-PPB(180)
L2432185-07A	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		HEXCR-7196-PPB(1)
L2432185-07B	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		HEXCR-7196-UF(1)
L2432185-07C	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		ARCHIVE()
L2432185-07D	Plastic 250ml HNO3 preserved	C	<2	<2	3.7	Y	Absent		CR-6020S-PPB(180)
L2432185-07E	Plastic 250ml HNO3 preserved	C	<2	<2	3.7	Y	Absent		CR-6020T-PPB(180)
L2432185-08A	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		HEXCR-7196-PPB(1)
L2432185-08B	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		HEXCR-7196-UF(1)
L2432185-08C	Plastic 250ml unpreserved	C	7	7	3.7	Y	Absent		ARCHIVE()
L2432185-08D	Plastic 250ml HNO3 preserved	C	<2	<2	3.7	Y	Absent		CR-6020S-PPB(180)
L2432185-08E	Plastic 250ml HNO3 preserved	C	<2	<2	3.7	Y	Absent		CR-6020T-PPB(180)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2432185
Project Number:	30108678.03C	**Report Date:**	06/12/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2432185
Project Number:	30108678.03C	**Report Date:**	06/12/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2432185
Project Number:	30108678.03C	**Report Date:**	06/12/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2432185
Project Number:	30108678.03C	**Report Date:**	06/12/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-9288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 06/08/24

ALPHA Job #: L2432185

Client Information
Client: Arcadis
Address: 1 Hanover Way Ste A
Willingboro NJ
Phone: 908-526-1100
Fax: Matt.Whitsell@arcadis.com
Email: Lenny.Grant@arcadis.com

Project Information
Project Name: Allstate 4187
Project Location: Philly PA
Project #: 30108678
(Use Project name as Project #) ☐
Project Manager: Lenny Grant
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 3 Day

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

ANALYSIS
- Hold
- NJ Full Suite (Soil)
- 1,4-Dioxane
- NJ Full Suite (Water)

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Hold	NJ Full Suite (Soil)	1,4-Dioxane	NJ Full Suite (Water)	Sample Specific Comments	Total Bottle
32185-01	TW-513	6/7/24	1450	AQ	SL	X	X	X	X		4
-02	TW-512		1420								4
-03	TW-505		1125								4
-04	TW-506		1025								4
-05	TW-509		1200								4
-06	TW-511		1340								4
-07	DUP-GW										4

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type											
Preservative											

Relinquished By:	Date/Time	Received By:	Date/Time
ARCADIS	6/7/24 1555		06-7-24 18:59
	6/7/24 1800		6/7/24 800
	6/7/24 2100	Anthony Green	JUN 07 2024 22215
Anthony Green	6/8/24 0224		6/8/24 0224
	6/8/24 0424		6/8/24 0424

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTITUTIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2441149
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST
Project Number:	30108678.07
Report Date:	07/29/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2441149-01	DEP51-S1	SOIL	51ST ST. PHILA PA	07/22/24 10:30	07/22/24
L2441149-02	DEP51-S2	SOIL	51ST ST. PHILA PA	07/22/24 10:45	07/22/24
L2441149-03	DEP51-S3	SOIL	51ST ST. PHILA PA	07/22/24 10:50	07/22/24
L2441149-04	DEP51-S4	SOIL	51ST ST. PHILA PA	07/22/24 11:00	07/22/24
L2441149-05	DEP51-S5	SOIL	51ST ST. PHILA PA	07/22/24 11:05	07/22/24
L2441149-06	DEP51-S6	SOIL	51ST ST. PHILA PA	07/22/24 11:10	07/22/24
L2441149-07	DEP51-S7	SOIL	51ST ST. PHILA PA	07/22/24 11:15	07/22/24
L2441149-08	DEP51-S8	SOIL	51ST ST. PHILA PA	07/22/24 11:20	07/22/24
L2441149-09	DEP51-S9	SOIL	51ST ST. PHILA PA	07/22/24 11:25	07/22/24
L2441149-10	DEP51-S10	SOIL	51ST ST. PHILA PA	07/22/24 11:30	07/22/24
L2441149-11	DEP51-S11	SOIL	51ST ST. PHILA PA	07/22/24 11:40	07/22/24
L2441149-12	DUP-S	SOIL	51ST ST. PHILA PA	07/22/24 00:00	07/22/24
L2441149-13	DEP51-W1	WATER	51ST ST. PHILA PA	07/22/24 12:05	07/22/24
L2441149-14	DEP51-W2	WATER	51ST ST. PHILA PA	07/22/24 12:10	07/22/24
L2441149-15	DEP51-W3	WATER	51ST ST. PHILA PA	07/22/24 12:15	07/22/24
L2441149-16	DEP51-W4	WATER	51ST ST. PHILA PA	07/22/24 13:00	07/22/24
L2441149-17	DUP-W	WATER	51ST ST. PHILA PA	07/22/24 00:00	07/22/24

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2441149
Project Number:	30108678.07	**Report Date:**	07/29/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2441149
Project Number:	30108678.07	**Report Date:**	07/29/24

Case Narrative (continued)

Report Submission

July 29, 2024: This final report includes the results of all requested analyses.

July 24, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2441149-01 through -12: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

The WG1950093-3 MS recovery, performed on L2441149-13, is outside the acceptance criteria for calcium (65%). A post digestion spike was performed and was within acceptance criteria.

Dissolved Metals

The WG1950096-3 MS recovery, performed on L2441149-13, is outside the acceptance criteria for calcium (54%). A post digestion spike was performed and was within acceptance criteria.

Hexavalent Chromium

The WG1950129-4 Insoluble MS recovery for chromium, hexavalent (45%), performed on L2441149-11, is outside the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (48%) was also outside criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 91%.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 07/29/24

ORGANICS

VOLATILES

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-01
Client ID: DEP51-S1
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 19:52
Analyst: AJK
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.012	0.0010	1
Chloromethane	ND		mg/kg	0.0046	0.0011	1
Vinyl chloride	ND		mg/kg	0.0012	0.00039	1
Bromomethane	ND		mg/kg	0.0023	0.00067	1
Chloroethane	ND		mg/kg	0.0023	0.00052	1
Trichlorofluoromethane	ND		mg/kg	0.0046	0.00080	1
1,1-Dichloroethene	ND		mg/kg	0.0012	0.00027	1
Carbon disulfide	ND		mg/kg	0.012	0.0052	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0046	0.00080	1
Methylene chloride	ND		mg/kg	0.0058	0.0026	1
Acetone	ND		mg/kg	0.029	0.012	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0017	0.00016	1
Methyl Acetate	ND		mg/kg	0.0046	0.0011	1
Methyl tert butyl ether	ND		mg/kg	0.0023	0.00023	1
1,1-Dichloroethane	ND		mg/kg	0.0012	0.00017	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0012	0.00020	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0012	0.00016	1
Cyclohexane	ND		mg/kg	0.012	0.00063	1
Bromochloromethane	ND		mg/kg	0.0023	0.00024	1
Chloroform	ND		mg/kg	0.0017	0.00016	1
Carbon tetrachloride	ND		mg/kg	0.0012	0.00026	1
1,1,1-Trichloroethane	ND		mg/kg	0.00058	0.00019	1
2-Butanone	ND		mg/kg	0.012	0.0026	1
Benzene	ND		mg/kg	0.00058	0.00019	1
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00030	1
Methyl cyclohexane	ND		mg/kg	0.0046	0.00070	1
Trichloroethene	ND		mg/kg	0.00058	0.00016	1
1,2-Dichloropropane	ND		mg/kg	0.0012	0.00014	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-01
Client ID: DEP51-S1
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00058	0.00012	1
1,4-Dioxane	ND		mg/kg	0.092	0.040	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00058	0.00018	1
Toluene	ND		mg/kg	0.0012	0.00063	1
4-Methyl-2-pentanone	ND		mg/kg	0.012	0.0015	1
Tetrachloroethene	ND		mg/kg	0.00058	0.00023	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00032	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00058	0.00018	1
1,1,2-Trichloroethane	ND		mg/kg	0.0012	0.00031	1
Dibromochloromethane	ND		mg/kg	0.0012	0.00016	1
1,2-Dibromoethane	ND		mg/kg	0.00058	0.00034	1
2-Hexanone	ND		mg/kg	0.012	0.0014	1
Chlorobenzene	ND		mg/kg	0.00058	0.00015	1
Ethylbenzene	ND		mg/kg	0.0012	0.00016	1
p/m-Xylene	ND		mg/kg	0.0023	0.00065	1
o-Xylene	ND		mg/kg	0.0012	0.00034	1
Xylenes, Total	ND		mg/kg	0.0012	0.00034	1
Styrene	ND		mg/kg	0.0012	0.00023	1
Bromoform	ND		mg/kg	0.0046	0.00028	1
Isopropylbenzene	ND		mg/kg	0.0012	0.00012	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00058	0.00019	1
1,3-Dichlorobenzene	ND		mg/kg	0.0023	0.00017	1
1,4-Dichlorobenzene	ND		mg/kg	0.0023	0.00020	1
1,2-Dichlorobenzene	ND		mg/kg	0.0023	0.00017	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0035	0.0012	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0023	0.00031	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0023	0.00037	1

Tentatively Identified Compounds					
Total TIC Compounds	0.00432	J	mg/kg		1
Unknown Cycloalkane	0.00432	J	mg/kg		1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-01
Client ID: DEP51-S1
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 10:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-02
Client ID: DEP51-S2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:45
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 20:18
Analyst: AJK
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0014	1
Chloromethane	ND		mg/kg	0.0062	0.0014	1
Vinyl chloride	ND		mg/kg	0.0016	0.00052	1
Bromomethane	ND		mg/kg	0.0031	0.00090	1
Chloroethane	ND		mg/kg	0.0031	0.00070	1
Trichlorofluoromethane	ND		mg/kg	0.0062	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00037	1
Carbon disulfide	ND		mg/kg	0.016	0.0071	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0062	0.0011	1
Methylene chloride	ND		mg/kg	0.0078	0.0036	1
Acetone	ND		mg/kg	0.039	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0023	0.00021	1
Methyl Acetate	ND		mg/kg	0.0062	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0031	0.00031	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00022	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00027	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00021	1
Cyclohexane	ND		mg/kg	0.016	0.00085	1
Bromochloromethane	ND		mg/kg	0.0031	0.00032	1
Chloroform	ND		mg/kg	0.0023	0.00022	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00036	1
1,1,1-Trichloroethane	ND		mg/kg	0.00078	0.00026	1
2-Butanone	ND		mg/kg	0.016	0.0034	1
Benzene	ND		mg/kg	0.00078	0.00026	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00040	1
Methyl cyclohexane	ND		mg/kg	0.0062	0.00094	1
Trichloroethene	ND		mg/kg	0.00078	0.00021	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00019	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-02
Client ID: DEP51-S2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:45
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00078	0.00017	1
1,4-Dioxane	ND		mg/kg	0.12	0.054	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00078	0.00024	1
Toluene	ND		mg/kg	0.0016	0.00084	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0020	1
Tetrachloroethene	ND		mg/kg	0.00078	0.00030	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00042	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00078	0.00024	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00042	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00022	1
1,2-Dibromoethane	ND		mg/kg	0.00078	0.00046	1
2-Hexanone	ND		mg/kg	0.016	0.0018	1
Chlorobenzene	ND		mg/kg	0.00078	0.00020	1
Ethylbenzene	ND		mg/kg	0.0016	0.00022	1
p/m-Xylene	ND		mg/kg	0.0031	0.00087	1
o-Xylene	ND		mg/kg	0.0016	0.00045	1
Xylenes, Total	ND		mg/kg	0.0016	0.00045	1
Styrene	ND		mg/kg	0.0016	0.00030	1
Bromoform	ND		mg/kg	0.0062	0.00038	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00017	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00078	0.00026	1
1,3-Dichlorobenzene	ND		mg/kg	0.0031	0.00023	1
1,4-Dichlorobenzene	ND		mg/kg	0.0031	0.00026	1
1,2-Dichlorobenzene	ND		mg/kg	0.0031	0.00022	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0047	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0031	0.00042	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0031	0.00050	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-02
Client ID: DEP51-S2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:45
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-03
Client ID: DEP51-S3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:50
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 20:44
Analyst: AJK
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.024	0.0022	1
Chloromethane	ND		mg/kg	0.0095	0.0022	1
Vinyl chloride	ND		mg/kg	0.0024	0.00079	1
Bromomethane	ND		mg/kg	0.0047	0.0014	1
Chloroethane	ND		mg/kg	0.0047	0.0011	1
Trichlorofluoromethane	ND		mg/kg	0.0095	0.0016	1
1,1-Dichloroethene	ND		mg/kg	0.0024	0.00056	1
Carbon disulfide	ND		mg/kg	0.024	0.011	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0095	0.0016	1
Methylene chloride	ND		mg/kg	0.012	0.0054	1
Acetone	ND		mg/kg	0.059	0.024	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0036	0.00032	1
Methyl Acetate	ND		mg/kg	0.0095	0.0022	1
Methyl tert butyl ether	ND		mg/kg	0.0047	0.00048	1
1,1-Dichloroethane	ND		mg/kg	0.0024	0.00034	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00041	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0024	0.00032	1
Cyclohexane	ND		mg/kg	0.024	0.0013	1
Bromochloromethane	ND		mg/kg	0.0047	0.00048	1
Chloroform	ND		mg/kg	0.0036	0.00033	1
Carbon tetrachloride	ND		mg/kg	0.0024	0.00054	1
1,1,1-Trichloroethane	ND		mg/kg	0.0012	0.00040	1
2-Butanone	ND		mg/kg	0.024	0.0053	1
Benzene	ND		mg/kg	0.0012	0.00039	1
1,2-Dichloroethane	ND		mg/kg	0.0024	0.00061	1
Methyl cyclohexane	ND		mg/kg	0.0095	0.0014	1
Trichloroethene	ND		mg/kg	0.0012	0.00032	1
1,2-Dichloropropane	ND		mg/kg	0.0024	0.00030	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-03
Client ID: DEP51-S3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:50
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0012	0.00026	1
1,4-Dioxane	ND		mg/kg	0.19	0.083	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00037	1
Toluene	ND		mg/kg	0.0024	0.0013	1
4-Methyl-2-pentanone	ND		mg/kg	0.024	0.0030	1
Tetrachloroethene	ND		mg/kg	0.0012	0.00046	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0024	0.00065	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0012	0.00037	1
1,1,2-Trichloroethane	ND		mg/kg	0.0024	0.00063	1
Dibromochloromethane	ND		mg/kg	0.0024	0.00033	1
1,2-Dibromoethane	ND		mg/kg	0.0012	0.00069	1
2-Hexanone	ND		mg/kg	0.024	0.0028	1
Chlorobenzene	ND		mg/kg	0.0012	0.00030	1
Ethylbenzene	ND		mg/kg	0.0024	0.00033	1
p/m-Xylene	ND		mg/kg	0.0047	0.0013	1
o-Xylene	ND		mg/kg	0.0024	0.00069	1
Xylenes, Total	ND		mg/kg	0.0024	0.00069	1
Styrene	ND		mg/kg	0.0024	0.00046	1
Bromoform	ND		mg/kg	0.0095	0.00058	1
Isopropylbenzene	ND		mg/kg	0.0024	0.00026	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0012	0.00039	1
1,3-Dichlorobenzene	ND		mg/kg	0.0047	0.00035	1
1,4-Dichlorobenzene	ND		mg/kg	0.0047	0.00040	1
1,2-Dichlorobenzene	ND		mg/kg	0.0047	0.00034	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0071	0.0024	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0047	0.00064	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0047	0.00076	1

Tentatively Identified Compounds				
Total TIC Compounds	0.0181	J	mg/kg	1
Unknown	0.0181	J	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-03
Client ID: DEP51-S3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:50
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	104		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-04
Client ID: DEP51-S4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 21:10
Analyst: AJK
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.020	0.0018	1
Chloromethane	ND		mg/kg	0.0079	0.0018	1
Vinyl chloride	ND		mg/kg	0.0020	0.00066	1
Bromomethane	ND		mg/kg	0.0039	0.0011	1
Chloroethane	ND		mg/kg	0.0039	0.00089	1
Trichlorofluoromethane	ND		mg/kg	0.0079	0.0014	1
1,1-Dichloroethene	ND		mg/kg	0.0020	0.00047	1
Carbon disulfide	ND		mg/kg	0.020	0.0090	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0079	0.0014	1
Methylene chloride	ND		mg/kg	0.0099	0.0045	1
Acetone	ND		mg/kg	0.049	0.020	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0030	0.00027	1
Methyl Acetate	ND		mg/kg	0.0079	0.0019	1
Methyl tert butyl ether	ND		mg/kg	0.0039	0.00040	1
1,1-Dichloroethane	ND		mg/kg	0.0020	0.00029	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00034	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0020	0.00027	1
Cyclohexane	ND		mg/kg	0.020	0.0011	1
Bromochloromethane	ND		mg/kg	0.0039	0.00040	1
Chloroform	ND		mg/kg	0.0030	0.00028	1
Carbon tetrachloride	ND		mg/kg	0.0020	0.00045	1
1,1,1-Trichloroethane	ND		mg/kg	0.00099	0.00033	1
2-Butanone	ND		mg/kg	0.020	0.0044	1
Benzene	ND		mg/kg	0.00099	0.00033	1
1,2-Dichloroethane	ND		mg/kg	0.0020	0.00051	1
Methyl cyclohexane	ND		mg/kg	0.0079	0.0012	1
Trichloroethene	ND		mg/kg	0.00099	0.00027	1
1,2-Dichloropropane	ND		mg/kg	0.0020	0.00025	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-04
Client ID: DEP51-S4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00099	0.00022	1
1,4-Dioxane	ND		mg/kg	0.16	0.069	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00099	0.00031	1
Toluene	ND		mg/kg	0.0020	0.0011	1
4-Methyl-2-pentanone	ND		mg/kg	0.020	0.0025	1
Tetrachloroethene	ND		mg/kg	0.00099	0.00039	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0020	0.00054	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00099	0.00031	1
1,1,2-Trichloroethane	ND		mg/kg	0.0020	0.00053	1
Dibromochloromethane	ND		mg/kg	0.0020	0.00028	1
1,2-Dibromoethane	ND		mg/kg	0.00099	0.00058	1
2-Hexanone	ND		mg/kg	0.020	0.0023	1
Chlorobenzene	ND		mg/kg	0.00099	0.00025	1
Ethylbenzene	ND		mg/kg	0.0020	0.00028	1
p/m-Xylene	ND		mg/kg	0.0039	0.0011	1
o-Xylene	ND		mg/kg	0.0020	0.00057	1
Xylenes, Total	ND		mg/kg	0.0020	0.00057	1
Styrene	ND		mg/kg	0.0020	0.00039	1
Bromoform	ND		mg/kg	0.0079	0.00048	1
Isopropylbenzene	ND		mg/kg	0.0020	0.00022	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00099	0.00033	1
1,3-Dichlorobenzene	ND		mg/kg	0.0039	0.00029	1
1,4-Dichlorobenzene	ND		mg/kg	0.0039	0.00034	1
1,2-Dichlorobenzene	ND		mg/kg	0.0039	0.00028	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0059	0.0020	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0039	0.00054	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0039	0.00064	1

Tentatively Identified Compounds					
Total TIC Compounds	0.00965	J	mg/kg		1
Cyclopentane	0.00965	NJ	mg/kg		1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-04
Client ID: DEP51-S4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	104		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-05
Client ID: DEP51-S5
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 21:36
Analyst: AJK
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.015	0.0014	1
Chloromethane	ND		mg/kg	0.0062	0.0014	1
Vinyl chloride	ND		mg/kg	0.0015	0.00052	1
Bromomethane	ND		mg/kg	0.0031	0.00090	1
Chloroethane	ND		mg/kg	0.0031	0.00070	1
Trichlorofluoromethane	ND		mg/kg	0.0062	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0015	0.00037	1
Carbon disulfide	ND		mg/kg	0.015	0.0070	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0062	0.0011	1
Methylene chloride	ND		mg/kg	0.0077	0.0035	1
Acetone	ND		mg/kg	0.038	0.015	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0023	0.00021	1
Methyl Acetate	ND		mg/kg	0.0062	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0031	0.00031	1
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00022	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00027	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0015	0.00021	1
Cyclohexane	ND		mg/kg	0.015	0.00084	1
Bromochloromethane	ND		mg/kg	0.0031	0.00032	1
Chloroform	ND		mg/kg	0.0023	0.00022	1
Carbon tetrachloride	ND		mg/kg	0.0015	0.00035	1
1,1,1-Trichloroethane	ND		mg/kg	0.00077	0.00026	1
2-Butanone	ND		mg/kg	0.015	0.0034	1
Benzene	ND		mg/kg	0.00077	0.00026	1
1,2-Dichloroethane	ND		mg/kg	0.0015	0.00040	1
Methyl cyclohexane	ND		mg/kg	0.0062	0.00093	1
Trichloroethene	ND		mg/kg	0.00077	0.00021	1
1,2-Dichloropropane	ND		mg/kg	0.0015	0.00019	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-05
Client ID: DEP51-S5
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00077	0.00017	1
1,4-Dioxane	ND		mg/kg	0.12	0.054	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00077	0.00024	1
Toluene	ND		mg/kg	0.0015	0.00084	1
4-Methyl-2-pentanone	ND		mg/kg	0.015	0.0020	1
Tetrachloroethene	ND		mg/kg	0.00077	0.00030	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0015	0.00042	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00077	0.00024	1
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00041	1
Dibromochloromethane	ND		mg/kg	0.0015	0.00022	1
1,2-Dibromoethane	ND		mg/kg	0.00077	0.00045	1
2-Hexanone	ND		mg/kg	0.015	0.0018	1
Chlorobenzene	ND		mg/kg	0.00077	0.00020	1
Ethylbenzene	ND		mg/kg	0.0015	0.00022	1
p/m-Xylene	ND		mg/kg	0.0031	0.00086	1
o-Xylene	ND		mg/kg	0.0015	0.00045	1
Xylenes, Total	ND		mg/kg	0.0015	0.00045	1
Styrene	ND		mg/kg	0.0015	0.00030	1
Bromoform	ND		mg/kg	0.0062	0.00038	1
Isopropylbenzene	ND		mg/kg	0.0015	0.00017	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00077	0.00026	1
1,3-Dichlorobenzene	ND		mg/kg	0.0031	0.00023	1
1,4-Dichlorobenzene	ND		mg/kg	0.0031	0.00026	1
1,2-Dichlorobenzene	ND		mg/kg	0.0031	0.00022	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0046	0.0015	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0031	0.00042	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0031	0.00050	1

Tentatively Identified Compounds				
Total TIC Compounds	0.0120	J	mg/kg	1
Unknown	0.0120	J	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-05
Client ID: DEP51-S5
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-06
Client ID: DEP51-S6
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 22:02
Analyst: AJK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.014	0.0013	1
Chloromethane	ND		mg/kg	0.0056	0.0013	1
Vinyl chloride	ND		mg/kg	0.0014	0.00046	1
Bromomethane	ND		mg/kg	0.0028	0.00081	1
Chloroethane	ND		mg/kg	0.0028	0.00063	1
Trichlorofluoromethane	ND		mg/kg	0.0056	0.00097	1
1,1-Dichloroethene	ND		mg/kg	0.0014	0.00033	1
Carbon disulfide	ND		mg/kg	0.014	0.0063	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0056	0.00096	1
Methylene chloride	ND		mg/kg	0.0070	0.0032	1
Acetone	ND		mg/kg	0.035	0.014	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00019	1
Methyl Acetate	0.0044	J	mg/kg	0.0056	0.0013	1
Methyl tert butyl ether	ND		mg/kg	0.0028	0.00028	1
1,1-Dichloroethane	ND		mg/kg	0.0014	0.00020	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0014	0.00024	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0014	0.00019	1
Cyclohexane	ND		mg/kg	0.014	0.00076	1
Bromochloromethane	ND		mg/kg	0.0028	0.00028	1
Chloroform	ND		mg/kg	0.0021	0.00019	1
Carbon tetrachloride	ND		mg/kg	0.0014	0.00032	1
1,1,1-Trichloroethane	ND		mg/kg	0.00070	0.00023	1
2-Butanone	ND		mg/kg	0.014	0.0031	1
Benzene	ND		mg/kg	0.00070	0.00023	1
1,2-Dichloroethane	ND		mg/kg	0.0014	0.00036	1
Methyl cyclohexane	ND		mg/kg	0.0056	0.00084	1
Trichloroethene	ND		mg/kg	0.00070	0.00019	1
1,2-Dichloropropane	ND		mg/kg	0.0014	0.00017	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-06
Client ID: DEP51-S6
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00070	0.00015	1
1,4-Dioxane	ND		mg/kg	0.11	0.049	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00070	0.00022	1
Toluene	ND		mg/kg	0.0014	0.00076	1
4-Methyl-2-pentanone	ND		mg/kg	0.014	0.0018	1
Tetrachloroethene	ND		mg/kg	0.00070	0.00027	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0014	0.00038	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00070	0.00022	1
1,1,2-Trichloroethane	ND		mg/kg	0.0014	0.00037	1
Dibromochloromethane	ND		mg/kg	0.0014	0.00019	1
1,2-Dibromoethane	ND		mg/kg	0.00070	0.00041	1
2-Hexanone	ND		mg/kg	0.014	0.0016	1
Chlorobenzene	ND		mg/kg	0.00070	0.00018	1
Ethylbenzene	ND		mg/kg	0.0014	0.00020	1
p/m-Xylene	ND		mg/kg	0.0028	0.00078	1
o-Xylene	ND		mg/kg	0.0014	0.00040	1
Xylenes, Total	ND		mg/kg	0.0014	0.00040	1
Styrene	ND		mg/kg	0.0014	0.00027	1
Bromoform	ND		mg/kg	0.0056	0.00034	1
Isopropylbenzene	ND		mg/kg	0.0014	0.00015	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00070	0.00023	1
1,3-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,4-Dichlorobenzene	ND		mg/kg	0.0028	0.00024	1
1,2-Dichlorobenzene	ND		mg/kg	0.0028	0.00020	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0042	0.0014	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0028	0.00038	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0028	0.00045	1

Tentatively Identified Compounds				
Total TIC Compounds	0.00572	J	mg/kg	1
Cyclopentane	0.00572	NJ	mg/kg	1

Project Name: ALLIANCE 51ST **Lab Number:** L2441149

Project Number: 30108678.07 **Report Date:** 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-06 Date Collected: 07/22/24 11:10

Client ID: DEP51-S6 Date Received: 07/22/24

Sample Location: 51ST ST. PHILA PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-07
Client ID: DEP51-S7
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 22:28
Analyst: AJK
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0015	1
Chloromethane	ND		mg/kg	0.0066	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00055	1
Bromomethane	ND		mg/kg	0.0033	0.00096	1
Chloroethane	ND		mg/kg	0.0033	0.00075	1
Trichlorofluoromethane	ND		mg/kg	0.0066	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00039	1
Carbon disulfide	ND		mg/kg	0.016	0.0075	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0066	0.0011	1
Methylene chloride	ND		mg/kg	0.0082	0.0038	1
Acetone	ND		mg/kg	0.041	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0025	0.00023	1
Methyl Acetate	ND		mg/kg	0.0066	0.0016	1
Methyl tert butyl ether	ND		mg/kg	0.0033	0.00033	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00024	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00029	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00023	1
Cyclohexane	ND		mg/kg	0.016	0.00090	1
Bromochloromethane	ND		mg/kg	0.0033	0.00034	1
Chloroform	ND		mg/kg	0.0025	0.00023	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00038	1
1,1,1-Trichloroethane	ND		mg/kg	0.00082	0.00028	1
2-Butanone	ND		mg/kg	0.016	0.0037	1
Benzene	ND		mg/kg	0.00082	0.00027	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00042	1
Methyl cyclohexane	ND		mg/kg	0.0066	0.0010	1
Trichloroethene	ND		mg/kg	0.00082	0.00023	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00021	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-07
Client ID: DEP51-S7
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00082	0.00018	1
1,4-Dioxane	ND		mg/kg	0.13	0.058	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00082	0.00026	1
Toluene	ND		mg/kg	0.0016	0.00090	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0021	1
Tetrachloroethene	ND		mg/kg	0.00082	0.00032	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00045	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00082	0.00026	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00044	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00023	1
1,2-Dibromoethane	ND		mg/kg	0.00082	0.00048	1
2-Hexanone	ND		mg/kg	0.016	0.0019	1
Chlorobenzene	ND		mg/kg	0.00082	0.00021	1
Ethylbenzene	ND		mg/kg	0.0016	0.00023	1
p/m-Xylene	ND		mg/kg	0.0033	0.00092	1
o-Xylene	ND		mg/kg	0.0016	0.00048	1
Xylenes, Total	ND		mg/kg	0.0016	0.00048	1
Styrene	ND		mg/kg	0.0016	0.00032	1
Bromoform	ND		mg/kg	0.0066	0.00041	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00018	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00082	0.00027	1
1,3-Dichlorobenzene	ND		mg/kg	0.0033	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0033	0.00028	1
1,2-Dichlorobenzene	ND		mg/kg	0.0033	0.00024	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0050	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0033	0.00045	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0033	0.00053	1

Tentatively Identified Compounds					
Total TIC Compounds	0.00761	J	mg/kg		1
Unknown	0.00761	J	mg/kg		1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-07
Client ID: DEP51-S7
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	104		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-08
Client ID: DEP51-S8
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:20
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 22:54
Analyst: AJK
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.020	0.0018	1
Chloromethane	ND		mg/kg	0.0079	0.0018	1
Vinyl chloride	ND		mg/kg	0.0020	0.00066	1
Bromomethane	ND		mg/kg	0.0040	0.0011	1
Chloroethane	ND		mg/kg	0.0040	0.00089	1
Trichlorofluoromethane	ND		mg/kg	0.0079	0.0014	1
1,1-Dichloroethene	ND		mg/kg	0.0020	0.00047	1
Carbon disulfide	ND		mg/kg	0.020	0.0090	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0079	0.0014	1
Methylene chloride	ND		mg/kg	0.0099	0.0045	1
Acetone	ND		mg/kg	0.049	0.020	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0030	0.00027	1
Methyl Acetate	ND		mg/kg	0.0079	0.0019	1
Methyl tert butyl ether	ND		mg/kg	0.0040	0.00040	1
1,1-Dichloroethane	ND		mg/kg	0.0020	0.00029	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0020	0.00035	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0020	0.00027	1
Cyclohexane	ND		mg/kg	0.020	0.0011	1
Bromochloromethane	ND		mg/kg	0.0040	0.00040	1
Chloroform	ND		mg/kg	0.0030	0.00028	1
Carbon tetrachloride	ND		mg/kg	0.0020	0.00046	1
1,1,1-Trichloroethane	ND		mg/kg	0.00099	0.00033	1
2-Butanone	ND		mg/kg	0.020	0.0044	1
Benzene	ND		mg/kg	0.00099	0.00033	1
1,2-Dichloroethane	ND		mg/kg	0.0020	0.00051	1
Methyl cyclohexane	ND		mg/kg	0.0079	0.0012	1
Trichloroethene	ND		mg/kg	0.00099	0.00027	1
1,2-Dichloropropane	ND		mg/kg	0.0020	0.00025	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-08
Client ID: DEP51-S8
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:20
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00099	0.00022	1
1,4-Dioxane	ND		mg/kg	0.16	0.069	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00099	0.00031	1
Toluene	ND		mg/kg	0.0020	0.0011	1
4-Methyl-2-pentanone	ND		mg/kg	0.020	0.0025	1
Tetrachloroethene	ND		mg/kg	0.00099	0.00039	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0020	0.00054	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00099	0.00031	1
1,1,2-Trichloroethane	ND		mg/kg	0.0020	0.00053	1
Dibromochloromethane	ND		mg/kg	0.0020	0.00028	1
1,2-Dibromoethane	ND		mg/kg	0.00099	0.00058	1
2-Hexanone	ND		mg/kg	0.020	0.0023	1
Chlorobenzene	ND		mg/kg	0.00099	0.00025	1
Ethylbenzene	ND		mg/kg	0.0020	0.00028	1
p/m-Xylene	ND		mg/kg	0.0040	0.0011	1
o-Xylene	ND		mg/kg	0.0020	0.00058	1
Xylenes, Total	ND		mg/kg	0.0020	0.00058	1
Styrene	ND		mg/kg	0.0020	0.00039	1
Bromoform	ND		mg/kg	0.0079	0.00049	1
Isopropylbenzene	ND		mg/kg	0.0020	0.00022	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00099	0.00033	1
1,3-Dichlorobenzene	ND		mg/kg	0.0040	0.00029	1
1,4-Dichlorobenzene	ND		mg/kg	0.0040	0.00034	1
1,2-Dichlorobenzene	ND		mg/kg	0.0040	0.00028	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0059	0.0020	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0040	0.00054	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0040	0.00064	1

Tentatively Identified Compounds				
Total TIC Compounds	0.0121	J	mg/kg	1
Unknown	0.0121	J	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-08
Client ID: DEP51-S8
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:20
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-09
Client ID: DEP51-S9
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:25
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 23:20
Analyst: AJK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.021	0.0019	1
Chloromethane	ND		mg/kg	0.0083	0.0019	1
Vinyl chloride	ND		mg/kg	0.0021	0.00070	1
Bromomethane	ND		mg/kg	0.0042	0.0012	1
Chloroethane	ND		mg/kg	0.0042	0.00094	1
Trichlorofluoromethane	ND		mg/kg	0.0083	0.0014	1
1,1-Dichloroethene	ND		mg/kg	0.0021	0.00050	1
Carbon disulfide	ND		mg/kg	0.021	0.0095	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0083	0.0014	1
Methylene chloride	ND		mg/kg	0.010	0.0048	1
Acetone	ND		mg/kg	0.052	0.021	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0031	0.00028	1
Methyl Acetate	ND		mg/kg	0.0083	0.0020	1
Methyl tert butyl ether	ND		mg/kg	0.0042	0.00042	1
1,1-Dichloroethane	ND		mg/kg	0.0021	0.00030	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0021	0.00036	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0021	0.00028	1
Cyclohexane	ND		mg/kg	0.021	0.0011	1
Bromochloromethane	ND		mg/kg	0.0042	0.00043	1
Chloroform	ND		mg/kg	0.0031	0.00029	1
Carbon tetrachloride	ND		mg/kg	0.0021	0.00048	1
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00035	1
2-Butanone	ND		mg/kg	0.021	0.0046	1
Benzene	ND		mg/kg	0.0010	0.00034	1
1,2-Dichloroethane	ND		mg/kg	0.0021	0.00054	1
Methyl cyclohexane	ND		mg/kg	0.0083	0.0012	1
Trichloroethene	ND		mg/kg	0.0010	0.00028	1
1,2-Dichloropropane	ND		mg/kg	0.0021	0.00026	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-09
Client ID: DEP51-S9
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:25
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0010	0.00023	1
1,4-Dioxane	ND		mg/kg	0.17	0.073	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00033	1
Toluene	ND		mg/kg	0.0021	0.0011	1
4-Methyl-2-pentanone	ND		mg/kg	0.021	0.0027	1
Tetrachloroethene	ND		mg/kg	0.0010	0.00041	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0021	0.00057	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00033	1
1,1,2-Trichloroethane	ND		mg/kg	0.0021	0.00056	1
Dibromochloromethane	ND		mg/kg	0.0021	0.00029	1
1,2-Dibromoethane	ND		mg/kg	0.0010	0.00061	1
2-Hexanone	ND		mg/kg	0.021	0.0024	1
Chlorobenzene	ND		mg/kg	0.0010	0.00026	1
Ethylbenzene	ND		mg/kg	0.0021	0.00029	1
p/m-Xylene	ND		mg/kg	0.0042	0.0012	1
o-Xylene	ND		mg/kg	0.0021	0.00061	1
Xylenes, Total	ND		mg/kg	0.0021	0.00061	1
Styrene	ND		mg/kg	0.0021	0.00041	1
Bromoform	ND		mg/kg	0.0083	0.00051	1
Isopropylbenzene	ND		mg/kg	0.0021	0.00023	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00034	1
1,3-Dichlorobenzene	ND		mg/kg	0.0042	0.00031	1
1,4-Dichlorobenzene	ND		mg/kg	0.0042	0.00036	1
1,2-Dichlorobenzene	ND		mg/kg	0.0042	0.00030	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0062	0.0021	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0042	0.00057	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0042	0.00067	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-09
Client ID: DEP51-S9
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:25
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-10
Client ID: DEP51-S10
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/24/24 23:46
Analyst: AJK
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.024	0.0022	1
Chloromethane	ND		mg/kg	0.0097	0.0023	1
Vinyl chloride	ND		mg/kg	0.0024	0.00082	1
Bromomethane	ND		mg/kg	0.0049	0.0014	1
Chloroethane	ND		mg/kg	0.0049	0.0011	1
Trichlorofluoromethane	ND		mg/kg	0.0097	0.0017	1
1,1-Dichloroethene	ND		mg/kg	0.0024	0.00058	1
Carbon disulfide	ND		mg/kg	0.024	0.011	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0097	0.0017	1
Methylene chloride	ND		mg/kg	0.012	0.0056	1
Acetone	ND		mg/kg	0.061	0.024	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0036	0.00033	1
Methyl Acetate	ND		mg/kg	0.0097	0.0023	1
Methyl tert butyl ether	ND		mg/kg	0.0049	0.00049	1
1,1-Dichloroethane	ND		mg/kg	0.0024	0.00035	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00043	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0024	0.00033	1
Cyclohexane	ND		mg/kg	0.024	0.0013	1
Bromochloromethane	ND		mg/kg	0.0049	0.00050	1
Chloroform	ND		mg/kg	0.0036	0.00034	1
Carbon tetrachloride	ND		mg/kg	0.0024	0.00056	1
1,1,1-Trichloroethane	ND		mg/kg	0.0012	0.00041	1
2-Butanone	ND		mg/kg	0.024	0.0054	1
Benzene	ND		mg/kg	0.0012	0.00040	1
1,2-Dichloroethane	ND		mg/kg	0.0024	0.00063	1
Methyl cyclohexane	ND		mg/kg	0.0097	0.0015	1
Trichloroethene	ND		mg/kg	0.0012	0.00033	1
1,2-Dichloropropane	ND		mg/kg	0.0024	0.00030	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-10
Client ID: DEP51-S10
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0012	0.00026	1
1,4-Dioxane	ND		mg/kg	0.19	0.086	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0012	0.00038	1
Toluene	ND		mg/kg	0.0024	0.0013	1
4-Methyl-2-pentanone	ND		mg/kg	0.024	0.0031	1
Tetrachloroethene	ND		mg/kg	0.0012	0.00048	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0024	0.00066	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0012	0.00038	1
1,1,2-Trichloroethane	ND		mg/kg	0.0024	0.00065	1
Dibromochloromethane	ND		mg/kg	0.0024	0.00034	1
1,2-Dibromoethane	ND		mg/kg	0.0012	0.00071	1
2-Hexanone	ND		mg/kg	0.024	0.0029	1
Chlorobenzene	ND		mg/kg	0.0012	0.00031	1
Ethylbenzene	ND		mg/kg	0.0024	0.00034	1
p/m-Xylene	ND		mg/kg	0.0049	0.0014	1
o-Xylene	ND		mg/kg	0.0024	0.00071	1
Xylenes, Total	ND		mg/kg	0.0024	0.00071	1
Styrene	ND		mg/kg	0.0024	0.00048	1
Bromoform	ND		mg/kg	0.0097	0.00060	1
Isopropylbenzene	ND		mg/kg	0.0024	0.00026	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0012	0.00040	1
1,3-Dichlorobenzene	ND		mg/kg	0.0049	0.00036	1
1,4-Dichlorobenzene	ND		mg/kg	0.0049	0.00042	1
1,2-Dichlorobenzene	ND		mg/kg	0.0049	0.00035	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0073	0.0024	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0049	0.00066	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0049	0.00078	1

Tentatively Identified Compounds			
No Tentatively Identified Compounds	ND	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-10
Client ID: DEP51-S10
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	105		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-11
Client ID: DEP51-S11
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:40
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/25/24 00:12
Analyst: AJK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.022	0.0020	1
Chloromethane	ND		mg/kg	0.0090	0.0021	1
Vinyl chloride	ND		mg/kg	0.0022	0.00075	1
Bromomethane	ND		mg/kg	0.0045	0.0013	1
Chloroethane	ND		mg/kg	0.0045	0.0010	1
Trichlorofluoromethane	ND		mg/kg	0.0090	0.0016	1
1,1-Dichloroethene	ND		mg/kg	0.0022	0.00054	1
Carbon disulfide	ND		mg/kg	0.022	0.010	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0090	0.0016	1
Methylene chloride	ND		mg/kg	0.011	0.0051	1
Acetone	0.23		mg/kg	0.056	0.022	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0034	0.00031	1
Methyl Acetate	ND		mg/kg	0.0090	0.0021	1
Methyl tert butyl ether	ND		mg/kg	0.0045	0.00045	1
1,1-Dichloroethane	ND		mg/kg	0.0022	0.00032	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0022	0.00039	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0022	0.00031	1
Cyclohexane	ND		mg/kg	0.022	0.0012	1
Bromochloromethane	ND		mg/kg	0.0045	0.00046	1
Chloroform	ND		mg/kg	0.0034	0.00031	1
Carbon tetrachloride	ND		mg/kg	0.0022	0.00052	1
1,1,1-Trichloroethane	ND		mg/kg	0.0011	0.00038	1
2-Butanone	0.14		mg/kg	0.022	0.0050	1
Benzene	ND		mg/kg	0.0011	0.00037	1
1,2-Dichloroethane	ND		mg/kg	0.0022	0.00058	1
Methyl cyclohexane	ND		mg/kg	0.0090	0.0014	1
Trichloroethene	ND		mg/kg	0.0011	0.00031	1
1,2-Dichloropropane	ND		mg/kg	0.0022	0.00028	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-11
Client ID: DEP51-S11
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:40
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.0011	0.00024	1
1,4-Dioxane	ND		mg/kg	0.18	0.079	1
cis-1,3-Dichloropropene	ND		mg/kg	0.0011	0.00036	1
Toluene	ND		mg/kg	0.0022	0.0012	1
4-Methyl-2-pentanone	ND		mg/kg	0.022	0.0029	1
Tetrachloroethene	ND		mg/kg	0.0011	0.00044	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0022	0.00061	1
1,3-Dichloropropene, Total	ND		mg/kg	0.0011	0.00036	1
1,1,2-Trichloroethane	ND		mg/kg	0.0022	0.00060	1
Dibromochloromethane	ND		mg/kg	0.0022	0.00031	1
1,2-Dibromoethane	ND		mg/kg	0.0011	0.00066	1
2-Hexanone	ND		mg/kg	0.022	0.0026	1
Chlorobenzene	ND		mg/kg	0.0011	0.00028	1
Ethylbenzene	ND		mg/kg	0.0022	0.00032	1
p/m-Xylene	ND		mg/kg	0.0045	0.0012	1
o-Xylene	ND		mg/kg	0.0022	0.00065	1
Xylenes, Total	ND		mg/kg	0.0022	0.00065	1
Styrene	ND		mg/kg	0.0022	0.00044	1
Bromoform	ND		mg/kg	0.0090	0.00055	1
Isopropylbenzene	ND		mg/kg	0.0022	0.00024	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0011	0.00037	1
1,3-Dichlorobenzene	ND		mg/kg	0.0045	0.00033	1
1,4-Dichlorobenzene	ND		mg/kg	0.0045	0.00038	1
1,2-Dichlorobenzene	ND		mg/kg	0.0045	0.00032	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0067	0.0022	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0045	0.00061	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0045	0.00072	1

Tentatively Identified Compounds				
Total TIC Compounds	0.140	J	mg/kg	1
Unknown	0.00742	J	mg/kg	1
Unknown	0.0766	J	mg/kg	1
Unknown	0.0565	J	mg/kg	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-11
Client ID: DEP51-S11
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:40
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-12
Client ID: DUP-S
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/25/24 00:39
Analyst: AJK
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Dichlorodifluoromethane	ND		mg/kg	0.016	0.0015	1
Chloromethane	ND		mg/kg	0.0064	0.0015	1
Vinyl chloride	ND		mg/kg	0.0016	0.00054	1
Bromomethane	ND		mg/kg	0.0032	0.00093	1
Chloroethane	ND		mg/kg	0.0032	0.00072	1
Trichlorofluoromethane	ND		mg/kg	0.0064	0.0011	1
1,1-Dichloroethene	ND		mg/kg	0.0016	0.00038	1
Carbon disulfide	ND		mg/kg	0.016	0.0073	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0064	0.0011	1
Methylene chloride	ND		mg/kg	0.0080	0.0037	1
Acetone	ND		mg/kg	0.040	0.016	1
trans-1,2-Dichloroethene	ND		mg/kg	0.0024	0.00022	1
Methyl Acetate	ND		mg/kg	0.0064	0.0015	1
Methyl tert butyl ether	ND		mg/kg	0.0032	0.00032	1
1,1-Dichloroethane	ND		mg/kg	0.0016	0.00023	1
cis-1,2-Dichloroethene	ND		mg/kg	0.0016	0.00028	1
1,2-Dichloroethene, Total	ND		mg/kg	0.0016	0.00022	1
Cyclohexane	ND		mg/kg	0.016	0.00087	1
Bromochloromethane	ND		mg/kg	0.0032	0.00033	1
Chloroform	ND		mg/kg	0.0024	0.00022	1
Carbon tetrachloride	ND		mg/kg	0.0016	0.00037	1
1,1,1-Trichloroethane	ND		mg/kg	0.00080	0.00027	1
2-Butanone	ND		mg/kg	0.016	0.0036	1
Benzene	ND		mg/kg	0.00080	0.00026	1
1,2-Dichloroethane	ND		mg/kg	0.0016	0.00041	1
Methyl cyclohexane	ND		mg/kg	0.0064	0.00096	1
Trichloroethene	ND		mg/kg	0.00080	0.00022	1
1,2-Dichloropropane	ND		mg/kg	0.0016	0.00020	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-12
Client ID: DUP-S
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Bromodichloromethane	ND		mg/kg	0.00080	0.00017	1
1,4-Dioxane	ND		mg/kg	0.13	0.056	1
cis-1,3-Dichloropropene	ND		mg/kg	0.00080	0.00025	1
Toluene	ND		mg/kg	0.0016	0.00087	1
4-Methyl-2-pentanone	ND		mg/kg	0.016	0.0020	1
Tetrachloroethene	ND		mg/kg	0.00080	0.00031	1
trans-1,3-Dichloropropene	ND		mg/kg	0.0016	0.00044	1
1,3-Dichloropropene, Total	ND		mg/kg	0.00080	0.00025	1
1,1,2-Trichloroethane	ND		mg/kg	0.0016	0.00043	1
Dibromochloromethane	ND		mg/kg	0.0016	0.00022	1
1,2-Dibromoethane	ND		mg/kg	0.00080	0.00047	1
2-Hexanone	ND		mg/kg	0.016	0.0019	1
Chlorobenzene	ND		mg/kg	0.00080	0.00020	1
Ethylbenzene	ND		mg/kg	0.0016	0.00022	1
p/m-Xylene	ND		mg/kg	0.0032	0.00090	1
o-Xylene	ND		mg/kg	0.0016	0.00046	1
Xylenes, Total	ND		mg/kg	0.0016	0.00046	1
Styrene	ND		mg/kg	0.0016	0.00031	1
Bromoform	ND		mg/kg	0.0064	0.00039	1
Isopropylbenzene	ND		mg/kg	0.0016	0.00017	1
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00080	0.00026	1
1,3-Dichlorobenzene	ND		mg/kg	0.0032	0.00024	1
1,4-Dichlorobenzene	ND		mg/kg	0.0032	0.00027	1
1,2-Dichlorobenzene	ND		mg/kg	0.0032	0.00023	1
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0048	0.0016	1
1,2,4-Trichlorobenzene	ND		mg/kg	0.0032	0.00044	1
1,2,3-Trichlorobenzene	ND		mg/kg	0.0032	0.00052	1

Tentatively Identified Compounds				
Total TIC Compounds	0.00542	J	mg/kg	1
Cyclopentane	0.00542	NJ	mg/kg	1

Project Name: ALLIANCE 51ST **Lab Number:** L2441149

Project Number: 30108678.07 **Report Date:** 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-12 Date Collected: 07/22/24 00:00

Client ID: DUP-S Date Received: 07/22/24

Sample Location: 51ST ST. PHILA PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-13
Client ID: DEP51-W1
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/26/24 08:49
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.8	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-13
Client ID: DEP51-W1
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	123		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-13
Client ID: DEP51-W1
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/26/24 08:49
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-14
Client ID: DEP51-W2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/26/24 09:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.7	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-14
Client ID: DEP51-W2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	124		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-14
Client ID: DEP51-W2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/26/24 09:12
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-15
Client ID: DEP51-W3
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 12:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/26/24 09:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-15
Client ID: DEP51-W3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	121		70-130

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-15
Client ID: DEP51-W3
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 12:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/26/24 09:36
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
4-Bromofluorobenzene	90		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-16
Client ID: DEP51-W4
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 13:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/26/24 10:00
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.6	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-16
Client ID: DEP51-W4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 13:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	123		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-16
Client ID: DEP51-W4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 13:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/26/24 10:00
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-17
Client ID: DUP-W
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/26/24 10:24
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.20	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.68	1
Acetone	1.7	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-17
Client ID: DUP-W
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Bromodichloromethane	ND		ug/l	0.50	0.19	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.20	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	121		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-17
Client ID: DUP-W
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/26/24 10:24
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	1.1	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
4-Bromofluorobenzene	89		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/24/24 16:50
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-12 Batch: WG1951348-5					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00092
Chloromethane	ND		mg/kg	0.0040	0.00093
Vinyl chloride	ND		mg/kg	0.0010	0.00034
Bromomethane	ND		mg/kg	0.0020	0.00058
Chloroethane	ND		mg/kg	0.0020	0.00045
Trichlorofluoromethane	ND		mg/kg	0.0040	0.00070
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00024
Carbon disulfide	ND		mg/kg	0.010	0.0046
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.0040	0.00069
Methylene chloride	ND		mg/kg	0.0050	0.0023
Acetone	ND		mg/kg	0.025	0.010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00014
Methyl Acetate	ND		mg/kg	0.0040	0.00095
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
1,1-Dichloroethane	ND		mg/kg	0.0010	0.00014
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00018
1,2-Dichloroethene, Total	ND		mg/kg	0.0010	0.00014
Cyclohexane	ND		mg/kg	0.010	0.00054
Bromochloromethane	ND		mg/kg	0.0020	0.00020
Chloroform	ND		mg/kg	0.0015	0.00014
Carbon tetrachloride	ND		mg/kg	0.0010	0.00023
1,1,1-Trichloroethane	ND		mg/kg	0.00050	0.00017
2-Butanone	ND		mg/kg	0.010	0.0022
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Methyl cyclohexane	ND		mg/kg	0.0040	0.00060
Trichloroethene	ND		mg/kg	0.00050	0.00014
1,2-Dichloropropane	ND		mg/kg	0.0010	0.00012
Bromodichloromethane	ND		mg/kg	0.00050	0.00011

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/24/24 16:50
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-12 Batch: WG1951348-5					
1,4-Dioxane	ND		mg/kg	0.080	0.035
cis-1,3-Dichloropropene	ND		mg/kg	0.00050	0.00016
Toluene	ND		mg/kg	0.0010	0.00054
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.0013
Tetrachloroethene	ND		mg/kg	0.00050	0.00020
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00027
1,3-Dichloropropene, Total	ND		mg/kg	0.00050	0.00016
1,1,2-Trichloroethane	ND		mg/kg	0.0010	0.00027
Dibromochloromethane	ND		mg/kg	0.0010	0.00014
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
2-Hexanone	ND		mg/kg	0.010	0.0012
Chlorobenzene	ND		mg/kg	0.00050	0.00013
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Styrene	ND		mg/kg	0.0010	0.00020
Bromoform	ND		mg/kg	0.0040	0.00025
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00050	0.00017
1,3-Dichlorobenzene	ND		mg/kg	0.0020	0.00015
1,4-Dichlorobenzene	ND		mg/kg	0.0020	0.00017
1,2-Dichlorobenzene	ND		mg/kg	0.0020	0.00014
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0030	0.0010
1,2,4-Trichlorobenzene	ND		mg/kg	0.0020	0.00027
1,2,3-Trichlorobenzene	ND		mg/kg	0.0020	0.00032

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/24/24 16:50
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-12 Batch: WG1951348-5					
Tentatively Identified Compounds					
Total TIC Compounds	0.00370	J	mg/kg		
Unknown	0.00370	J	mg/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	100		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/26/24 07:37
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13-17 Batch: WG1952468-5					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.20
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.17
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.68
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.17
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.15
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Bromodichloromethane	ND		ug/l	0.50	0.19

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/26/24 07:37
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13-17 Batch: WG1952468-5					
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.20
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/26/24 07:37
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13-17 Batch: WG1952468-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	120		70-130

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D-SIM(M)
Analytical Date: 07/26/24 07:37
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13-17 Batch: WG1952470-5					
1,4-Dioxane	ND		ug/l	3.0	1.1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.050	0.006

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
4-Bromofluorobenzene	90		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-12 Batch: WG1951348-3 WG1951348-4								
Dichlorodifluoromethane	84		81		30-146	4		30
Chloromethane	79		77		52-130	3		30
Vinyl chloride	110		106		67-130	4		30
Bromomethane	114		117		57-147	3		30
Chloroethane	95		98		50-151	3		30
Trichlorofluoromethane	111		109		70-139	2		30
1,1-Dichloroethene	105		102		65-135	3		30
Carbon disulfide	101		98		59-130	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	111		109		50-139	2		30
Methylene chloride	94		92		70-130	2		30
Acetone	75		74		54-140	1		30
trans-1,2-Dichloroethene	95		100		70-130	5		30
Methyl Acetate	70		75		51-146	7		30
Methyl tert butyl ether	100		105		66-130	5		30
1,1-Dichloroethane	96		94		70-130	2		30
cis-1,2-Dichloroethene	94		92		70-130	2		30
Cyclohexane	105		95		59-142	10		30
Bromochloromethane	99		91		70-130	8		30
Chloroform	97		90		70-130	7		30
Carbon tetrachloride	100		93		70-130	7		30
1,1,1-Trichloroethane	101		95		70-130	6		30
2-Butanone	80		73		70-130	9		30
Benzene	107		95		70-130	12		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-12 Batch: WG1951348-3 WG1951348-4								
1,2-Dichloroethane	92		86		70-130	7		30
Methyl cyclohexane	106		105		70-130	1		30
Trichloroethene	99		98		70-130	1		30
1,2-Dichloropropane	103		104		70-130	1		30
Bromodichloromethane	95		94		70-130	1		30
1,4-Dioxane	110		108		65-136	2		30
cis-1,3-Dichloropropene	101		99		70-130	2		30
Toluene	113		106		70-130	6		30
4-Methyl-2-pentanone	106		101		70-130	5		30
Tetrachloroethene	112		111		70-130	1		30
trans-1,3-Dichloropropene	106		103		70-130	3		30
1,1,2-Trichloroethane	99		97		70-130	2		30
Dibromochloromethane	104		103		70-130	1		30
1,2-Dibromoethane	100		97		70-130	3		30
2-Hexanone	84		79		70-130	6		30
Chlorobenzene	109		106		70-130	3		30
Ethylbenzene	111		104		70-130	7		30
p/m-Xylene	114		104		70-130	9		30
o-Xylene	111		94		70-130	17		30
Styrene	112		98		70-130	13		30
Bromoform	105		98		70-130	7		30
Isopropylbenzene	116		109		70-130	6		30
1,1,2,2-Tetrachloroethane	106		81		70-130	27		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-12 Batch: WG1951348-3 WG1951348-4								
1,3-Dichlorobenzene	111		108		70-130	3		30
1,4-Dichlorobenzene	108		107		70-130	1		30
1,2-Dichlorobenzene	106		105		70-130	1		30
1,2-Dibromo-3-chloropropane	100		97		68-130	3		30
1,2,4-Trichlorobenzene	127		129		70-130	2		30
1,2,3-Trichlorobenzene	119		117		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		84		70-130
Toluene-d8	103		100		70-130
4-Bromofluorobenzene	102		80		70-130
Dibromofluoromethane	94		88		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-17 Batch: WG1952468-3 WG1952468-4								
Dichlorodifluoromethane	65		64		36-147	2		20
Chloromethane	91		89		64-130	2		20
Vinyl chloride	80		79		55-140	1		20
Bromomethane	60		60		39-139	0		20
Chloroethane	84		81		55-138	4		20
Trichlorofluoromethane	100		100		62-150	0		20
1,1-Dichloroethene	99		100		61-145	1		20
Carbon disulfide	99		96		51-130	3		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		70-130	0		20
Methylene chloride	99		98		70-130	1		20
Acetone	120		120		58-148	0		20
trans-1,2-Dichloroethene	99		99		70-130	0		20
Methyl Acetate	120		120		70-130	0		20
Methyl tert butyl ether	120		120		63-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Cyclohexane	98		97		70-130	1		20
Bromochloromethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
2-Butanone	110		130		63-138	17		20
Benzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-17 Batch: WG1952468-3 WG1952468-4								
1,2-Dichloroethane	110		110		70-130	0		20
Methyl cyclohexane	99		97		70-130	2		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichloropropane	98		98		70-130	0		20
Bromodichloromethane	100		100		67-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Toluene	93		92		70-130	1		20
Tetrachloroethene	90		88		70-130	2		20
4-Methyl-2-pentanone	88		90		59-130	2		20
trans-1,3-Dichloropropene	96		98		70-130	2		20
1,1,2-Trichloroethane	97		94		70-130	3		20
Dibromochloromethane	92		91		63-130	1		20
1,2-Dibromoethane	98		99		70-130	1		20
2-Hexanone	89		94		57-130	5		20
Chlorobenzene	93		93		75-130	0		20
Ethylbenzene	87		88		70-130	1		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	80		80		70-130	0		20
Styrene	80		80		70-130	0		20
Bromoform	76		75		54-136	1		20
Isopropylbenzene	72		72		70-130	0		20
1,3-Dichlorobenzene	92		88		70-130	4		20
1,4-Dichlorobenzene	81		83		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-17 Batch: WG1952468-3 WG1952468-4								
1,2-Dichlorobenzene	83		82		70-130	1		20
1,2-Dibromo-3-chloropropane	81		85		41-144	5		20
1,2,4-Trichlorobenzene	72		72		70-130	0		20
1,2,3-Trichlorobenzene	77		75		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
Toluene-d8	98		100		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	108		107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13-17 Batch: WG1952470-3 WG1952470-4								
1,4-Dioxane	120		120		70-130	0		25
1,1,2,2-Tetrachloroethane	108		112		70-130	4		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		110		70-130
4-Bromofluorobenzene	91		89		70-130

METALS

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-01
Client ID: DEP51-S1
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4600		mg/kg	7.78	2.10	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	3.89	0.296	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Arsenic, Total	3.62		mg/kg	0.778	0.162	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Barium, Total	65.3		mg/kg	0.778	0.135	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.295	J	mg/kg	0.389	0.026	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.113	J	mg/kg	0.778	0.076	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Calcium, Total	30400		mg/kg	7.78	2.72	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Chromium, Total	332		mg/kg	0.778	0.075	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Cobalt, Total	5.95		mg/kg	1.56	0.129	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Copper, Total	17.9		mg/kg	0.778	0.201	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Iron, Total	11400		mg/kg	3.89	0.702	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Lead, Total	66.1		mg/kg	3.89	0.208	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Magnesium, Total	3580		mg/kg	7.78	1.20	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Manganese, Total	203		mg/kg	0.778	0.124	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Mercury, Total	0.065		mg/kg	0.065	0.042	1	07/23/24 09:30	07/23/24 10:51	EPA 7471B	1,7471B	MJR
Nickel, Total	20.4		mg/kg	1.94	0.188	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Potassium, Total	2100		mg/kg	194	11.2	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	1.56	0.201	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.389	0.220	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Sodium, Total	69.5	J	mg/kg	156	2.45	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Thallium, Total	0.605	J	mg/kg	1.56	0.245	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Vanadium, Total	21.1		mg/kg	0.778	0.158	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
Zinc, Total	114		mg/kg	3.89	0.228	2	07/23/24 08:55	07/23/24 13:52	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	332	J	mg/kg	0.809	0.162	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-02
Client ID: DEP51-S2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:45
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8440		mg/kg	8.18	2.21	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.09	0.311	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Arsenic, Total	5.70		mg/kg	0.818	0.170	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Barium, Total	88.0		mg/kg	0.818	0.142	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.370	J	mg/kg	0.409	0.027	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.206	J	mg/kg	0.818	0.080	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Calcium, Total	32300		mg/kg	8.18	2.86	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Chromium, Total	834		mg/kg	0.818	0.079	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Cobalt, Total	10.2		mg/kg	1.64	0.136	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Copper, Total	20.6		mg/kg	0.818	0.211	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Iron, Total	17900		mg/kg	4.09	0.739	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Lead, Total	59.4		mg/kg	4.09	0.219	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Magnesium, Total	5640		mg/kg	8.18	1.26	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Manganese, Total	301		mg/kg	0.818	0.130	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Mercury, Total	0.063	J	mg/kg	0.067	0.043	1	07/23/24 09:30	07/23/24 10:55	EPA 7471B	1,7471B	MJR
Nickel, Total	38.6		mg/kg	2.04	0.198	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Potassium, Total	3810		mg/kg	204	11.8	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Selenium, Total	0.212	J	mg/kg	1.64	0.211	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.409	0.232	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Sodium, Total	114	J	mg/kg	164	2.58	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Thallium, Total	1.00	J	mg/kg	1.64	0.258	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Vanadium, Total	35.4		mg/kg	0.818	0.166	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
Zinc, Total	162		mg/kg	4.09	0.240	2	07/23/24 08:55	07/23/24 13:55	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	830		mg/kg	0.851	0.170	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-03
Client ID: DEP51-S3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 10:50
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13400		mg/kg	8.06	2.18	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Antimony, Total	ND		mg/kg	4.03	0.306	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Arsenic, Total	9.04		mg/kg	0.806	0.168	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Barium, Total	137		mg/kg	0.806	0.140	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.570		mg/kg	0.403	0.027	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.289	J	mg/kg	0.806	0.079	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Calcium, Total	42800		mg/kg	8.06	2.82	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Chromium, Total	1240		mg/kg	0.806	0.077	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Cobalt, Total	14.3		mg/kg	1.61	0.134	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Copper, Total	40.5		mg/kg	0.806	0.208	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Iron, Total	23500		mg/kg	4.03	0.728	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Lead, Total	110		mg/kg	4.03	0.216	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Magnesium, Total	8260		mg/kg	8.06	1.24	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Manganese, Total	437		mg/kg	0.806	0.128	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Mercury, Total	0.137		mg/kg	0.066	0.043	1	07/23/24 09:30	07/23/24 10:58	EPA 7471B	1,7471B	MJR
Nickel, Total	55.8		mg/kg	2.01	0.195	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Potassium, Total	6180		mg/kg	201	11.6	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Selenium, Total	0.328	J	mg/kg	1.61	0.208	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.403	0.228	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Sodium, Total	176		mg/kg	161	2.54	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Thallium, Total	1.58	J	mg/kg	1.61	0.254	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Vanadium, Total	54.2		mg/kg	0.806	0.164	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
Zinc, Total	252		mg/kg	4.03	0.236	2	07/23/24 08:55	07/23/24 13:59	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1240		mg/kg	0.826	0.165	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-04
Client ID: DEP51-S4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10900		mg/kg	7.86	2.12	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Antimony, Total	0.767	J	mg/kg	3.93	0.299	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Arsenic, Total	9.50		mg/kg	0.786	0.164	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Barium, Total	118		mg/kg	0.786	0.137	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.518		mg/kg	0.393	0.026	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.389	J	mg/kg	0.786	0.077	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Calcium, Total	24400		mg/kg	7.86	2.75	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Chromium, Total	890		mg/kg	0.786	0.076	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Cobalt, Total	13.4		mg/kg	1.57	0.130	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Copper, Total	44.9		mg/kg	0.786	0.203	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Iron, Total	24700		mg/kg	3.93	0.710	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Lead, Total	201		mg/kg	3.93	0.211	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Magnesium, Total	7410		mg/kg	7.86	1.21	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Manganese, Total	496		mg/kg	0.786	0.125	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Mercury, Total	0.121		mg/kg	0.065	0.042	1	07/23/24 09:30	07/23/24 11:08	EPA 7471B	1,7471B	MJR
Nickel, Total	48.4		mg/kg	1.97	0.190	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Potassium, Total	4460		mg/kg	197	11.3	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Selenium, Total	0.450	J	mg/kg	1.57	0.203	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Silver, Total	0.234	J	mg/kg	0.393	0.222	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Sodium, Total	169		mg/kg	157	2.48	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Thallium, Total	1.10	J	mg/kg	1.57	0.248	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Vanadium, Total	43.8		mg/kg	0.786	0.160	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
Zinc, Total	299		mg/kg	3.93	0.230	2	07/23/24 08:55	07/23/24 14:02	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	890		mg/kg	0.827	0.165	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-05
Client ID: DEP51-S5
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8300		mg/kg	10.2	2.76	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Antimony, Total	1.68	J	mg/kg	5.12	0.389	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Arsenic, Total	6.80		mg/kg	1.02	0.213	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Barium, Total	121		mg/kg	1.02	0.178	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.411	J	mg/kg	0.512	0.034	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.379	J	mg/kg	1.02	0.100	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Calcium, Total	9870		mg/kg	10.2	3.58	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Chromium, Total	559		mg/kg	1.02	0.098	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Cobalt, Total	9.38		mg/kg	2.05	0.170	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Copper, Total	54.8		mg/kg	1.02	0.264	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Iron, Total	21600		mg/kg	5.12	0.924	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Lead, Total	2330		mg/kg	5.12	0.274	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Magnesium, Total	5450		mg/kg	10.2	1.58	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Manganese, Total	371		mg/kg	1.02	0.163	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Mercury, Total	0.059	J	mg/kg	0.086	0.056	1	07/23/24 09:30	07/23/24 11:11	EPA 7471B	1,7471B	MJR
Nickel, Total	29.6		mg/kg	2.56	0.248	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Potassium, Total	4200		mg/kg	256	14.7	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Selenium, Total	0.587	J	mg/kg	2.05	0.264	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.512	0.290	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Sodium, Total	146	J	mg/kg	205	3.22	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Thallium, Total	0.685	J	mg/kg	2.05	0.322	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Vanadium, Total	29.8		mg/kg	1.02	0.208	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
Zinc, Total	387		mg/kg	5.12	0.300	2	07/23/24 08:55	07/23/24 14:06	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	559		mg/kg	1.08	0.217	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-06
Client ID: DEP51-S6
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6380		mg/kg	9.65	2.60	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Antimony, Total	4.00	J	mg/kg	4.82	0.366	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Arsenic, Total	12.9		mg/kg	0.965	0.201	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Barium, Total	115		mg/kg	0.965	0.168	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.372	J	mg/kg	0.482	0.032	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.517	J	mg/kg	0.965	0.095	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Calcium, Total	12800		mg/kg	9.65	3.38	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Chromium, Total	311		mg/kg	0.965	0.093	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Cobalt, Total	8.70		mg/kg	1.93	0.160	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Copper, Total	93.9		mg/kg	0.965	0.249	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Iron, Total	36800		mg/kg	4.82	0.871	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Lead, Total	290		mg/kg	4.82	0.258	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Magnesium, Total	3390		mg/kg	9.65	1.48	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Manganese, Total	394		mg/kg	0.965	0.153	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Mercury, Total	0.225		mg/kg	0.079	0.051	1	07/23/24 09:30	07/23/24 11:15	EPA 7471B	1,7471B	MJR
Nickel, Total	31.3		mg/kg	2.41	0.233	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Potassium, Total	2040		mg/kg	241	13.9	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Selenium, Total	0.971	J	mg/kg	1.93	0.249	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Silver, Total	0.369	J	mg/kg	0.482	0.273	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Sodium, Total	148	J	mg/kg	193	3.04	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Thallium, Total	0.594	J	mg/kg	1.93	0.304	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Vanadium, Total	27.2		mg/kg	0.965	0.196	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
Zinc, Total	210		mg/kg	4.82	0.283	2	07/23/24 08:55	07/23/24 14:09	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	311		mg/kg	0.990	0.198	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-07
Client ID: DEP51-S7
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10900		mg/kg	10.4	2.80	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Antimony, Total	0.464	J	mg/kg	5.18	0.394	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Arsenic, Total	8.85		mg/kg	1.04	0.215	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Barium, Total	117		mg/kg	1.04	0.180	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.531		mg/kg	0.518	0.034	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.304	J	mg/kg	1.04	0.102	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Calcium, Total	11600		mg/kg	10.4	3.62	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Chromium, Total	433		mg/kg	1.04	0.099	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Cobalt, Total	12.2		mg/kg	2.07	0.172	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Copper, Total	41.5		mg/kg	1.04	0.267	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Iron, Total	22600		mg/kg	5.18	0.935	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Lead, Total	140		mg/kg	5.18	0.278	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Magnesium, Total	6740		mg/kg	10.4	1.60	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Manganese, Total	526		mg/kg	1.04	0.165	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Mercury, Total	0.090		mg/kg	0.086	0.056	1	07/23/24 09:30	07/23/24 11:18	EPA 7471B	1,7471B	MJR
Nickel, Total	35.1		mg/kg	2.59	0.251	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Potassium, Total	5090		mg/kg	259	14.9	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Selenium, Total	0.448	J	mg/kg	2.07	0.267	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.518	0.293	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Sodium, Total	178	J	mg/kg	207	3.26	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Thallium, Total	1.04	J	mg/kg	2.07	0.326	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Vanadium, Total	38.4		mg/kg	1.04	0.210	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
Zinc, Total	230		mg/kg	5.18	0.304	2	07/23/24 08:55	07/23/24 14:20	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	433	J	mg/kg	1.09	0.218	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-08
Client ID: DEP51-S8
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:20
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12500		mg/kg	12.6	3.40	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Antimony, Total	20.8		mg/kg	6.30	0.479	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Arsenic, Total	13.9		mg/kg	1.26	0.262	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Barium, Total	146		mg/kg	1.26	0.219	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.622	J	mg/kg	0.630	0.042	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.469	J	mg/kg	1.26	0.124	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Calcium, Total	37700		mg/kg	12.6	4.41	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Chromium, Total	1110		mg/kg	1.26	0.121	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Cobalt, Total	16.0		mg/kg	2.52	0.209	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Copper, Total	59.7		mg/kg	1.26	0.325	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Iron, Total	28000		mg/kg	6.30	1.14	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Lead, Total	474		mg/kg	6.30	0.338	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Magnesium, Total	8690		mg/kg	12.6	1.94	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Manganese, Total	575		mg/kg	1.26	0.200	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Mercury, Total	0.155		mg/kg	0.105	0.069	1	07/23/24 09:30	07/23/24 11:21	EPA 7471B	1,7471B	MJR
Nickel, Total	59.1		mg/kg	3.15	0.305	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Potassium, Total	5120		mg/kg	315	18.2	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Selenium, Total	0.862	J	mg/kg	2.52	0.325	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.630	0.357	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Sodium, Total	233	J	mg/kg	252	3.97	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Thallium, Total	1.26	J	mg/kg	2.52	0.397	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Vanadium, Total	52.2		mg/kg	1.26	0.256	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
Zinc, Total	407		mg/kg	6.30	0.370	2	07/23/24 08:55	07/23/24 14:24	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1110		mg/kg	1.33	0.265	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-09
Client ID: DEP51-S9
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:25
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10200		mg/kg	9.46	2.55	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Antimony, Total	0.698	J	mg/kg	4.73	0.360	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Arsenic, Total	10.3		mg/kg	0.946	0.197	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Barium, Total	110		mg/kg	0.946	0.165	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.592		mg/kg	0.473	0.031	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.452	J	mg/kg	0.946	0.093	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Calcium, Total	14800		mg/kg	9.46	3.31	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Chromium, Total	491		mg/kg	0.946	0.091	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Cobalt, Total	13.0		mg/kg	1.89	0.157	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Copper, Total	50.0		mg/kg	0.946	0.244	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Iron, Total	33900		mg/kg	4.73	0.854	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Lead, Total	1120		mg/kg	4.73	0.254	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Magnesium, Total	7190		mg/kg	9.46	1.46	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Manganese, Total	558		mg/kg	0.946	0.150	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Mercury, Total	0.102		mg/kg	0.079	0.052	1	07/23/24 09:30	07/23/24 11:25	EPA 7471B	1,7471B	MJR
Nickel, Total	35.6		mg/kg	2.36	0.229	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Potassium, Total	3670		mg/kg	236	13.6	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Selenium, Total	0.669	J	mg/kg	1.89	0.244	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Silver, Total	0.286	J	mg/kg	0.473	0.268	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Sodium, Total	172	J	mg/kg	189	2.98	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Thallium, Total	0.900	J	mg/kg	1.89	0.298	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Vanadium, Total	35.7		mg/kg	0.946	0.192	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
Zinc, Total	363		mg/kg	4.73	0.277	2	07/23/24 08:55	07/23/24 14:27	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	491		mg/kg	0.990	0.198	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Lab Number: L2441149
Project Number: 30108678.07
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-10
Client ID: DEP51-S10
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 60%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11200		mg/kg	13.1	3.54	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Antimony, Total	0.777	J	mg/kg	6.56	0.499	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Arsenic, Total	13.8		mg/kg	1.31	0.273	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Barium, Total	119		mg/kg	1.31	0.228	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.668		mg/kg	0.656	0.043	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.481	J	mg/kg	1.31	0.129	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Calcium, Total	19900		mg/kg	13.1	4.59	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Chromium, Total	1030		mg/kg	1.31	0.126	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Cobalt, Total	16.0		mg/kg	2.62	0.218	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Copper, Total	60.7		mg/kg	1.31	0.338	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Iron, Total	24900		mg/kg	6.56	1.18	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Lead, Total	242		mg/kg	6.56	0.352	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Magnesium, Total	9220		mg/kg	13.1	2.02	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Manganese, Total	656		mg/kg	1.31	0.209	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Mercury, Total	0.219		mg/kg	0.107	0.070	1	07/23/24 09:30	07/23/24 11:28	EPA 7471B	1,7471B	MJR
Nickel, Total	52.2		mg/kg	3.28	0.318	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Potassium, Total	3410		mg/kg	328	18.9	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Selenium, Total	0.754	J	mg/kg	2.62	0.338	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.656	0.371	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Sodium, Total	227	J	mg/kg	262	4.13	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Thallium, Total	0.819	J	mg/kg	2.62	0.413	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Vanadium, Total	50.5		mg/kg	1.31	0.266	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
Zinc, Total	343		mg/kg	6.56	0.384	2	07/23/24 08:55	07/23/24 14:31	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	1030		mg/kg	1.33	0.267	1		07/24/24 03:52	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-11
Client ID: DEP51-S11
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 11:40
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9980		mg/kg	8.99	2.43	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Antimony, Total	1.09	J	mg/kg	4.50	0.342	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Arsenic, Total	7.01		mg/kg	0.899	0.187	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Barium, Total	104		mg/kg	0.899	0.156	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.619		mg/kg	0.450	0.030	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.425	J	mg/kg	0.899	0.088	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Calcium, Total	8320		mg/kg	8.99	3.15	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Chromium, Total	101		mg/kg	0.899	0.086	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Cobalt, Total	9.09		mg/kg	1.80	0.149	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Copper, Total	50.9		mg/kg	0.899	0.232	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Iron, Total	20700		mg/kg	4.50	0.812	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Lead, Total	185		mg/kg	4.50	0.241	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Magnesium, Total	5450		mg/kg	8.99	1.38	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Manganese, Total	412		mg/kg	0.899	0.143	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Mercury, Total	0.202		mg/kg	0.074	0.048	1	07/23/24 09:30	07/23/24 11:31	EPA 7471B	1,7471B	MJR
Nickel, Total	18.6		mg/kg	2.25	0.218	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Potassium, Total	1830		mg/kg	225	12.9	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Selenium, Total	0.291	J	mg/kg	1.80	0.232	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Silver, Total	0.448	J	mg/kg	0.450	0.254	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Sodium, Total	221		mg/kg	180	2.83	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Thallium, Total	0.538	J	mg/kg	1.80	0.283	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Vanadium, Total	33.9		mg/kg	0.899	0.182	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
Zinc, Total	222		mg/kg	4.50	0.263	2	07/23/24 08:55	07/23/24 14:34	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	101		mg/kg	0.928	0.186	1		07/24/24 04:07	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-12
Client ID: DUP-S
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6280		mg/kg	9.76	2.63	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Antimony, Total	4.16	J	mg/kg	4.88	0.371	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Arsenic, Total	16.9		mg/kg	0.976	0.203	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Barium, Total	122		mg/kg	0.976	0.170	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.409	J	mg/kg	0.488	0.032	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.488	J	mg/kg	0.976	0.096	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Calcium, Total	11600		mg/kg	9.76	3.42	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Chromium, Total	305		mg/kg	0.976	0.094	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Cobalt, Total	7.75		mg/kg	1.95	0.162	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Copper, Total	83.2		mg/kg	0.976	0.252	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Iron, Total	28400		mg/kg	4.88	0.881	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Lead, Total	236		mg/kg	4.88	0.261	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Magnesium, Total	3150		mg/kg	9.76	1.50	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Manganese, Total	316		mg/kg	0.976	0.155	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Mercury, Total	0.249		mg/kg	0.082	0.053	1	07/23/24 09:30	07/23/24 11:35	EPA 7471B	1,7471B	MJR
Nickel, Total	28.1		mg/kg	2.44	0.236	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Potassium, Total	1840		mg/kg	244	14.0	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Selenium, Total	0.546	J	mg/kg	1.95	0.252	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Silver, Total	0.335	J	mg/kg	0.488	0.276	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Sodium, Total	152	J	mg/kg	195	3.07	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Thallium, Total	0.617	J	mg/kg	1.95	0.307	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Vanadium, Total	25.3		mg/kg	0.976	0.198	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
Zinc, Total	192		mg/kg	4.88	0.286	2	07/23/24 08:55	07/23/24 14:38	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	305		mg/kg	1.04	0.208	1		07/24/24 04:07	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-13
Client ID: DEP51-W1
Sample Location: 51ST ST. PHILA PA
Sample Depth:
Matrix: Water

Date Collected: 07/22/24 12:05
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	60.9		ug/l	10.0	3.27	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Antimony, Total	1.215	J	ug/l	4.000	0.4290	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Arsenic, Total	0.9562		ug/l	0.5000	0.1650	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Barium, Total	45.70		ug/l	0.5000	0.1730	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Calcium, Total	31100		ug/l	100.	39.4	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Chromium, Total	0.3406	J	ug/l	1.000	0.1780	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Cobalt, Total	0.3777	J	ug/l	0.5000	0.1630	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Copper, Total	3.167		ug/l	1.000	0.3840	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Iron, Total	169.		ug/l	50.0	19.1	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Lead, Total	1.069		ug/l	1.000	0.3430	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Magnesium, Total	12100		ug/l	70.0	24.2	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Manganese, Total	45.85		ug/l	1.000	0.4400	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Mercury, Total	0.1050	J	ug/l	0.2000	0.0915	1	07/23/24 08:20	07/23/24 11:43	EPA 7470A	1,7470A	MJR
Nickel, Total	1.761	J	ug/l	2.000	0.5560	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Potassium, Total	3820		ug/l	100.	30.9	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Selenium, Total	ND		ug/l	5.00	1.73	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Silver, Total	ND		ug/l	0.4000	0.1630	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Sodium, Total	28800		ug/l	100.	29.3	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Thallium, Total	ND		ug/l	1.000	0.1430	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Vanadium, Total	ND		ug/l	5.000	1.570	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
Zinc, Total	7.520	J	ug/l	10.00	3.410	1	07/23/24 07:42	07/23/24 11:24	EPA 3005A	1,6020B	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		07/23/24 11:24	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-13
Client ID: DEP51-W1
Sample Location: 51ST ST. PHILA PA
Sample Depth:
Matrix: Water

Date Collected: 07/22/24 12:05
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	8.49	J	ug/l	10.0	3.27	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.6591	J	ug/l	4.000	0.4290	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.9911		ug/l	0.5000	0.1650	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Barium, Dissolved	43.00		ug/l	0.5000	0.1730	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		ug/l	0.5000	0.1070	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	ND		ug/l	0.2000	0.0599	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	31500		ug/l	100.	39.4	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.2748	J	ug/l	1.000	0.1780	1	07/24/24 06:03	07/24/24 11:30	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.2237	J	ug/l	0.5000	0.1630	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Copper, Dissolved	2.925		ug/l	1.000	0.3840	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Iron, Dissolved	50.1		ug/l	50.0	19.1	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	12000		ug/l	70.0	24.2	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	4.750		ug/l	1.000	0.4400	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		ug/l	0.2000	0.0915	1	07/24/24 06:55	07/24/24 09:57	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	2.390		ug/l	2.000	0.5560	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3890		ug/l	100.	30.9	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		ug/l	5.00	1.73	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		ug/l	0.4000	0.1630	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	28000		ug/l	100.	29.3	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		ug/l	1.000	0.1430	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		ug/l	5.000	1.570	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	3.552	J	ug/l	10.00	3.410	1	07/24/24 06:03	07/24/24 09:25	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-14
Client ID: DEP51-W2
Sample Location: 51ST ST. PHILA PA
Sample Depth:
Matrix: Water

Date Collected: 07/22/24 12:10
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	36.1		ug/l	10.0	3.27	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Antimony, Total	0.5472	J	ug/l	4.000	0.4290	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Arsenic, Total	0.9875		ug/l	0.5000	0.1650	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Barium, Total	44.09		ug/l	0.5000	0.1730	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Calcium, Total	30500		ug/l	100.	39.4	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Chromium, Total	0.2938	J	ug/l	1.000	0.1780	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Cobalt, Total	0.3086	J	ug/l	0.5000	0.1630	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Copper, Total	2.672		ug/l	1.000	0.3840	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Iron, Total	112.		ug/l	50.0	19.1	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Lead, Total	0.5946	J	ug/l	1.000	0.3430	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Magnesium, Total	12000		ug/l	70.0	24.2	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Manganese, Total	38.67		ug/l	1.000	0.4400	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Mercury, Total	0.2490		ug/l	0.2000	0.0915	1	07/23/24 08:20	07/23/24 11:33	EPA 7470A	1,7470A	MJR
Nickel, Total	1.719	J	ug/l	2.000	0.5560	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Potassium, Total	3740		ug/l	100.	30.9	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Selenium, Total	ND		ug/l	5.00	1.73	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Silver, Total	ND		ug/l	0.4000	0.1630	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Sodium, Total	28500		ug/l	100.	29.3	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Thallium, Total	ND		ug/l	1.000	0.1430	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Vanadium, Total	ND		ug/l	5.000	1.570	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
Zinc, Total	5.536	J	ug/l	10.00	3.410	1	07/23/24 07:42	07/23/24 11:47	EPA 3005A	1,6020B	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		07/23/24 11:47	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-14
Client ID: DEP51-W2
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	8.44	J	ug/l	10.0	3.27	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	1.200	J	ug/l	4.000	0.4290	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	1.043		ug/l	0.5000	0.1650	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Barium, Dissolved	41.81		ug/l	0.5000	0.1730	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		ug/l	0.5000	0.1070	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	ND		ug/l	0.2000	0.0599	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	30400		ug/l	100.	39.4	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.2298	J	ug/l	1.000	0.1780	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.1692	J	ug/l	0.5000	0.1630	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Copper, Dissolved	2.313		ug/l	1.000	0.3840	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Iron, Dissolved	31.4	J	ug/l	50.0	19.1	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	11600		ug/l	70.0	24.2	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	5.665		ug/l	1.000	0.4400	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		ug/l	0.2000	0.0915	1	07/24/24 06:55	07/24/24 09:47	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	1.705	J	ug/l	2.000	0.5560	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3900		ug/l	100.	30.9	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		ug/l	5.00	1.73	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		ug/l	0.4000	0.1630	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	27100		ug/l	100.	29.3	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	0.1919	J	ug/l	1.000	0.1430	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		ug/l	5.000	1.570	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	3.568	J	ug/l	10.00	3.410	1	07/24/24 06:03	07/24/24 10:34	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-15
Client ID: DEP51-W3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	41.0		ug/l	10.0	3.27	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Antimony, Total	0.4983	J	ug/l	4.000	0.4290	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Arsenic, Total	0.9090		ug/l	0.5000	0.1650	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Barium, Total	42.13		ug/l	0.5000	0.1730	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Calcium, Total	30000		ug/l	100.	39.4	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Chromium, Total	0.2700	J	ug/l	1.000	0.1780	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Cobalt, Total	0.3100	J	ug/l	0.5000	0.1630	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Copper, Total	2.474		ug/l	1.000	0.3840	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Iron, Total	129.		ug/l	50.0	19.1	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Lead, Total	0.6150	J	ug/l	1.000	0.3430	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Magnesium, Total	11500		ug/l	70.0	24.2	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Manganese, Total	41.98		ug/l	1.000	0.4400	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Mercury, Total	0.0920	J	ug/l	0.2000	0.0915	1	07/23/24 08:20	07/23/24 11:46	EPA 7470A	1,7470A	MJR
Nickel, Total	1.577	J	ug/l	2.000	0.5560	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Potassium, Total	3680		ug/l	100.	30.9	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Selenium, Total	ND		ug/l	5.00	1.73	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Silver, Total	ND		ug/l	0.4000	0.1630	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Sodium, Total	26800		ug/l	100.	29.3	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Thallium, Total	ND		ug/l	1.000	0.1430	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Vanadium, Total	ND		ug/l	5.000	1.570	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
Zinc, Total	7.010	J	ug/l	10.00	3.410	1	07/23/24 07:42	07/23/24 11:51	EPA 3005A	1,6020B	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		07/23/24 11:51	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-15
Client ID: DEP51-W3
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 12:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	8.42	J	ug/l	10.0	3.27	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.7665	J	ug/l	4.000	0.4290	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.9474		ug/l	0.5000	0.1650	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Barium, Dissolved	41.30		ug/l	0.5000	0.1730	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		ug/l	0.5000	0.1070	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	ND		ug/l	0.2000	0.0599	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	29700		ug/l	100.	39.4	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.2059	J	ug/l	1.000	0.1780	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.1663	J	ug/l	0.5000	0.1630	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Copper, Dissolved	2.164		ug/l	1.000	0.3840	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Iron, Dissolved	28.9	J	ug/l	50.0	19.1	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	11400		ug/l	70.0	24.2	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	5.916		ug/l	1.000	0.4400	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		ug/l	0.2000	0.0915	1	07/24/24 06:55	07/24/24 10:00	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	1.638	J	ug/l	2.000	0.5560	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3690		ug/l	100.	30.9	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		ug/l	5.00	1.73	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		ug/l	0.4000	0.1630	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	26400		ug/l	100.	29.3	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		ug/l	1.000	0.1430	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		ug/l	5.000	1.570	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	3.439	J	ug/l	10.00	3.410	1	07/24/24 06:03	07/24/24 10:39	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-16
Client ID: DEP51-W4
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 13:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	44.3		ug/l	10.0	3.27	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Antimony, Total	0.4872	J	ug/l	4.000	0.4290	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Arsenic, Total	0.9654		ug/l	0.5000	0.1650	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Barium, Total	44.53		ug/l	0.5000	0.1730	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Calcium, Total	30200		ug/l	100.	39.4	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Chromium, Total	0.2745	J	ug/l	1.000	0.1780	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Cobalt, Total	0.3318	J	ug/l	0.5000	0.1630	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Copper, Total	2.706		ug/l	1.000	0.3840	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Iron, Total	143.		ug/l	50.0	19.1	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Lead, Total	0.7412	J	ug/l	1.000	0.3430	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Magnesium, Total	11600		ug/l	70.0	24.2	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Manganese, Total	44.83		ug/l	1.000	0.4400	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Mercury, Total	ND		ug/l	0.2000	0.0915	1	07/23/24 08:20	07/23/24 11:50	EPA 7470A	1,7470A	MJR
Nickel, Total	1.630	J	ug/l	2.000	0.5560	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Potassium, Total	3730		ug/l	100.	30.9	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Selenium, Total	ND		ug/l	5.00	1.73	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Silver, Total	ND		ug/l	0.4000	0.1630	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Sodium, Total	27900		ug/l	100.	29.3	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Thallium, Total	ND		ug/l	1.000	0.1430	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Vanadium, Total	ND		ug/l	5.000	1.570	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
Zinc, Total	5.595	J	ug/l	10.00	3.410	1	07/23/24 07:42	07/23/24 11:56	EPA 3005A	1,6020B	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		07/23/24 11:56	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-16
Client ID: DEP51-W4
Sample Location: 51ST ST. PHILA PA
Sample Depth:
Matrix: Water

Date Collected: 07/22/24 13:00
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	8.57	J	ug/l	10.0	3.27	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.8044	J	ug/l	4.000	0.4290	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.9409		ug/l	0.5000	0.1650	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Barium, Dissolved	41.26		ug/l	0.5000	0.1730	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		ug/l	0.5000	0.1070	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	ND		ug/l	0.2000	0.0599	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	29700		ug/l	100.	39.4	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.2308	J	ug/l	1.000	0.1780	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.1872	J	ug/l	0.5000	0.1630	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Copper, Dissolved	2.307		ug/l	1.000	0.3840	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Iron, Dissolved	30.2	J	ug/l	50.0	19.1	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	11600		ug/l	70.0	24.2	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	5.980		ug/l	1.000	0.4400	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		ug/l	0.2000	0.0915	1	07/24/24 06:55	07/24/24 10:03	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	1.725	J	ug/l	2.000	0.5560	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3720		ug/l	100.	30.9	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		ug/l	5.00	1.73	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		ug/l	0.4000	0.1630	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	27100		ug/l	100.	29.3	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		ug/l	1.000	0.1430	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		ug/l	5.000	1.570	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	3.950	J	ug/l	10.00	3.410	1	07/24/24 06:03	07/24/24 10:43	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-17
Client ID: DUP-W
Sample Location: 51ST ST. PHILA PA
Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	41.0		ug/l	10.0	3.27	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Antimony, Total	0.4810	J	ug/l	4.000	0.4290	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Arsenic, Total	0.9336		ug/l	0.5000	0.1650	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Barium, Total	44.93		ug/l	0.5000	0.1730	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Calcium, Total	31600		ug/l	100.	39.4	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Chromium, Total	0.2831	J	ug/l	1.000	0.1780	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Cobalt, Total	0.3182	J	ug/l	0.5000	0.1630	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Copper, Total	2.737		ug/l	1.000	0.3840	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Iron, Total	141.		ug/l	50.0	19.1	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Lead, Total	0.6885	J	ug/l	1.000	0.3430	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Magnesium, Total	12100		ug/l	70.0	24.2	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Manganese, Total	43.03		ug/l	1.000	0.4400	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Mercury, Total	ND		ug/l	0.2000	0.0915	1	07/23/24 08:20	07/23/24 11:53	EPA 7470A	1,7470A	MJR
Nickel, Total	1.730	J	ug/l	2.000	0.5560	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Potassium, Total	3820		ug/l	100.	30.9	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Selenium, Total	ND		ug/l	5.00	1.73	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Silver, Total	ND		ug/l	0.4000	0.1630	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Sodium, Total	28900		ug/l	100.	29.3	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Thallium, Total	ND		ug/l	1.000	0.1430	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Vanadium, Total	ND		ug/l	5.000	1.570	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
Zinc, Total	5.687	J	ug/l	10.00	3.410	1	07/23/24 07:42	07/23/24 12:17	EPA 3005A	1,6020B	NTB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		ug/l	10.0	3.00	1		07/23/24 12:17	NA	107,-	

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-17
Client ID: DUP-W
Sample Location: 51ST ST. PHILA PA
Sample Depth:
Matrix: Water

Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	6.20	J	ug/l	10.0	3.27	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.7301	J	ug/l	4.000	0.4290	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.9913		ug/l	0.5000	0.1650	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Barium, Dissolved	43.75		ug/l	0.5000	0.1730	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		ug/l	0.5000	0.1070	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Cadmium, Dissolved	ND		ug/l	0.2000	0.0599	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	30100		ug/l	100.	39.4	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.2487	J	ug/l	1.000	0.1780	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.1669	J	ug/l	0.5000	0.1630	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Copper, Dissolved	2.374		ug/l	1.000	0.3840	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Iron, Dissolved	20.6	J	ug/l	50.0	19.1	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	11700		ug/l	70.0	24.2	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	1.940		ug/l	1.000	0.4400	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		ug/l	0.2000	0.0915	1	07/24/24 06:55	07/24/24 10:07	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	1.904	J	ug/l	2.000	0.5560	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	3810		ug/l	100.	30.9	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		ug/l	5.00	1.73	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		ug/l	0.4000	0.1630	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	27600		ug/l	100.	29.3	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		ug/l	1.000	0.1430	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		ug/l	5.000	1.570	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	3.462	J	ug/l	10.00	3.410	1	07/24/24 06:03	07/24/24 10:48	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1950082-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Antimony, Total	0.258	J	mg/kg	2.00	0.152	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Barium, Total	ND		mg/kg	0.400	0.070	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Calcium, Total	ND		mg/kg	4.00	1.40	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Cobalt, Total	ND		mg/kg	0.800	0.066	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Copper, Total	ND		mg/kg	0.400	0.103	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Iron, Total	1.04	J	mg/kg	2.00	0.361	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Lead, Total	ND		mg/kg	2.00	0.107	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Magnesium, Total	ND		mg/kg	4.00	0.616	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Potassium, Total	ND		mg/kg	100	5.76	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Silver, Total	ND		mg/kg	0.200	0.113	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Sodium, Total	ND		mg/kg	80.0	1.26	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Thallium, Total	ND		mg/kg	0.800	0.126	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Vanadium, Total	ND		mg/kg	0.400	0.081	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL
Zinc, Total	ND		mg/kg	2.00	0.117	1	07/23/24 08:55	07/23/24 12:55	1,6010D	DHL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1950083-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/23/24 09:30	07/23/24 10:34	1,7471B	MJR

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13-17 Batch: WG1950093-1										
Aluminum, Total	ND		ug/l	10.0	3.27	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Antimony, Total	ND		ug/l	4.000	0.4290	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Arsenic, Total	ND		ug/l	0.5000	0.1650	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Barium, Total	ND		ug/l	0.5000	0.1730	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Calcium, Total	ND		ug/l	100	39.4	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Chromium, Total	ND		ug/l	1.000	0.1780	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Cobalt, Total	ND		ug/l	0.5000	0.1630	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Copper, Total	ND		ug/l	1.000	0.3840	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Iron, Total	ND		ug/l	50.0	19.1	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Lead, Total	ND		ug/l	1.000	0.3430	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Magnesium, Total	ND		ug/l	70.0	24.2	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Manganese, Total	ND		ug/l	1.000	0.4400	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Nickel, Total	ND		ug/l	2.000	0.5560	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Potassium, Total	ND		ug/l	100	30.9	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Selenium, Total	ND		ug/l	5.00	1.73	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Silver, Total	ND		ug/l	0.4000	0.1630	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Sodium, Total	ND		ug/l	100	29.3	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Thallium, Total	ND		ug/l	1.000	0.1430	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Vanadium, Total	ND		ug/l	5.000	1.570	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB
Zinc, Total	ND		ug/l	10.00	3.410	1	07/23/24 07:42	07/23/24 11:15	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13-17 Batch: WG1950095-1										
Mercury, Total	ND		ug/l	0.2000	0.0915	1	07/23/24 08:20	07/23/24 11:15	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 13-17 Batch: WG1950096-1										
Aluminum, Dissolved	ND		ug/l	10.0	3.27	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Antimony, Dissolved	0.4414	J	ug/l	4.000	0.4290	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Arsenic, Dissolved	ND		ug/l	0.5000	0.1650	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Barium, Dissolved	ND		ug/l	0.5000	0.1730	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Beryllium, Dissolved	ND		ug/l	0.5000	0.1070	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Cadmium, Dissolved	ND		ug/l	0.2000	0.0599	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Calcium, Dissolved	ND		ug/l	100	39.4	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Chromium, Dissolved	ND		ug/l	1.000	0.1780	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Cobalt, Dissolved	ND		ug/l	0.5000	0.1630	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Copper, Dissolved	ND		ug/l	1.000	0.3840	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Iron, Dissolved	ND		ug/l	50.0	19.1	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Lead, Dissolved	ND		ug/l	1.000	0.3430	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Magnesium, Dissolved	ND		ug/l	70.0	24.2	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Manganese, Dissolved	ND		ug/l	1.000	0.4400	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Nickel, Dissolved	ND		ug/l	2.000	0.5560	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Potassium, Dissolved	ND		ug/l	100	30.9	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Selenium, Dissolved	ND		ug/l	5.00	1.73	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Silver, Dissolved	ND		ug/l	0.4000	0.1630	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Sodium, Dissolved	38.9	J	ug/l	100	29.3	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Thallium, Dissolved	ND		ug/l	1.000	0.1430	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Vanadium, Dissolved	ND		ug/l	5.000	1.570	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF
Zinc, Dissolved	ND		ug/l	10.00	3.410	1	07/24/24 06:03	07/24/24 10:13	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 13-17 Batch: WG1950098-1										
Mercury, Dissolved	ND		ug/l	0.2000	0.0915	1	07/24/24 06:55	07/24/24 09:40	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1950082-2								
Aluminum, Total	101		-		80-120	-		
Antimony, Total	106		-		80-120	-		
Arsenic, Total	109		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	104		-		80-120	-		
Cadmium, Total	102		-		80-120	-		
Calcium, Total	103		-		80-120	-		
Chromium, Total	101		-		80-120	-		
Cobalt, Total	103		-		80-120	-		
Copper, Total	105		-		80-120	-		
Iron, Total	104		-		80-120	-		
Lead, Total	106		-		80-120	-		
Magnesium, Total	104		-		80-120	-		
Manganese, Total	102		-		80-120	-		
Nickel, Total	103		-		80-120	-		
Potassium, Total	106		-		80-120	-		
Selenium, Total	110		-		80-120	-		
Silver, Total	108		-		80-120	-		
Sodium, Total	107		-		80-120	-		
Thallium, Total	104		-		80-120	-		
Vanadium, Total	103		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1950082-2					
Zinc, Total	104	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1950083-2					
Mercury, Total	102	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-17 Batch: WG1950093-2					
Aluminum, Total	93	-	80-120	-	
Antimony, Total	82	-	80-120	-	
Arsenic, Total	93	-	80-120	-	
Barium, Total	95	-	80-120	-	
Beryllium, Total	93	-	80-120	-	
Cadmium, Total	92	-	80-120	-	
Calcium, Total	87	-	80-120	-	
Chromium, Total	93	-	80-120	-	
Cobalt, Total	94	-	80-120	-	
Copper, Total	94	-	80-120	-	
Iron, Total	113	-	80-120	-	
Lead, Total	89	-	80-120	-	
Magnesium, Total	92	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	96	-	80-120	-	
Potassium, Total	92	-	80-120	-	
Selenium, Total	88	-	80-120	-	
Silver, Total	96	-	80-120	-	
Sodium, Total	96	-	80-120	-	
Thallium, Total	88	-	80-120	-	
Vanadium, Total	92	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-17 Batch: WG1950093-2					
Zinc, Total	93	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 13-17 Batch: WG1950095-2					
Mercury, Total	112	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 Batch: WG1950096-2					
Aluminum, Dissolved	95	-	80-120	-	
Antimony, Dissolved	85	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Barium, Dissolved	101	-	80-120	-	
Beryllium, Dissolved	103	-	80-120	-	
Cadmium, Dissolved	100	-	80-120	-	
Calcium, Dissolved	119	-	80-120	-	
Chromium, Dissolved	98	-	80-120	-	
Cobalt, Dissolved	106	-	80-120	-	
Copper, Dissolved	107	-	80-120	-	
Iron, Dissolved	110	-	80-120	-	
Lead, Dissolved	104	-	80-120	-	
Magnesium, Dissolved	98	-	80-120	-	
Manganese, Dissolved	100	-	80-120	-	
Nickel, Dissolved	107	-	80-120	-	
Potassium, Dissolved	102	-	80-120	-	
Selenium, Dissolved	96	-	80-120	-	
Silver, Dissolved	103	-	80-120	-	
Sodium, Dissolved	104	-	80-120	-	
Thallium, Dissolved	105	-	80-120	-	
Vanadium, Dissolved	97	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 Batch: WG1950096-2					
Zinc, Dissolved	105	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 Batch: WG1950098-2					
Mercury, Dissolved	99	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1950082-3 QC Sample: L2441006-01 Client ID: MS Sample												
Aluminum, Total	4500	226	4920	**186**	Q	-	-		75-125	-		20
Antimony, Total	ND	56.4	54.2	96		-	-		75-125	-		20
Arsenic, Total	4.11	13.5	18.1	103		-	-		75-125	-		20
Barium, Total	12.0	226	230	97		-	-		75-125	-		20
Beryllium, Total	0.240J	5.64	5.79	103		-	-		75-125	-		20
Cadmium, Total	ND	5.98	5.70	95		-	-		75-125	-		20
Calcium, Total	1000	1130	2000	89		-	-		75-125	-		20
Chromium, Total	6.81	22.6	28.3	95		-	-		75-125	-		20
Cobalt, Total	1.95J	56.4	56.1	99		-	-		75-125	-		20
Copper, Total	4.32	28.2	32.8	101		-	-		75-125	-		20
Iron, Total	5610	113	6040	**381**	Q	-	-		75-125	-		20
Lead, Total	8.16	59.8	67.8	100		-	-		75-125	-		20
Magnesium, Total	1110	1130	2370	112		-	-		75-125	-		20
Manganese, Total	67.0	56.4	125	103		-	-		75-125	-		20
Nickel, Total	5.33	56.4	60.3	97		-	-		75-125	-		20
Potassium, Total	658	1130	1720	94		-	-		75-125	-		20
Selenium, Total	0.353J	13.5	13.9	103		-	-		75-125	-		20
Silver, Total	ND	5.64	5.78	102		-	-		75-125	-		20
Sodium, Total	52.3J	1130	1200	106		-	-		75-125	-		20
Thallium, Total	ND	13.5	13.2	98		-	-		75-125	-		20
Vanadium, Total	8.88	56.4	64.4	98		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1950082-3 QC Sample: L2441006-01 Client ID: MS Sample									
Zinc, Total	23.1	56.4	79.7	100	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1950083-3 QC Sample: L2440891-01 Client ID: MS Sample									
Mercury, Total	ND	2.37	2.49	105	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950093-3 QC Sample: L2441149-13 Client ID: DEP51-W1										
Aluminum, Total	60.9	2000	1940	94		-	-	75-125	-	20
Antimony, Total	1.215J	500	438.0	88		-	-	75-125	-	20
Arsenic, Total	0.9562	120	112.9	93		-	-	75-125	-	20
Barium, Total	45.70	2000	1972	96		-	-	75-125	-	20
Beryllium, Total	ND	50	45.69	91		-	-	75-125	-	20
Cadmium, Total	ND	53	50.31	95		-	-	75-125	-	20
Calcium, Total	31100	10000	37600	**65**	Q	-	-	75-125	-	20
Chromium, Total	0.3406J	200	186.1	93		-	-	75-125	-	20
Cobalt, Total	0.3777J	500	471.5	94		-	-	75-125	-	20
Copper, Total	3.167	250	237.0	94		-	-	75-125	-	20
Iron, Total	169.	1000	1260	109		-	-	75-125	-	20
Lead, Total	1.069	530	504.7	95		-	-	75-125	-	20
Magnesium, Total	12100	10000	21000	89		-	-	75-125	-	20
Manganese, Total	45.85	500	518.3	94		-	-	75-125	-	20
Nickel, Total	1.761J	500	474.2	95		-	-	75-125	-	20
Potassium, Total	3820	10000	12800	90		-	-	75-125	-	20
Selenium, Total	ND	120	104	87		-	-	75-125	-	20
Silver, Total	ND	50	48.76	98		-	-	75-125	-	20
Sodium, Total	28800	10000	39600	108		-	-	75-125	-	20
Thallium, Total	ND	120	112.8	94		-	-	75-125	-	20
Vanadium, Total	ND	500	455.9	91		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950093-3 QC Sample: L2441149-13 Client ID: DEP51-W1									
Zinc, Total	7.520J	500	461.5	92	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950095-3 QC Sample: L2441149-14 Client ID: DEP51-W2									
Mercury, Total	0.2490	5	5.005	95	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950096-3 QC Sample: L2441149-13 Client ID: DEP51-W1										
Aluminum, Dissolved	8.49J	2000	1740	87		-	-	75-125	-	20
Antimony, Dissolved	0.6591J	500	447.0	89		-	-	75-125	-	20
Arsenic, Dissolved	0.9911	120	118.5	98		-	-	75-125	-	20
Barium, Dissolved	43.00	2000	1994	98		-	-	75-125	-	20
Beryllium, Dissolved	ND	50	51.92	104		-	-	75-125	-	20
Cadmium, Dissolved	ND	53	52.33	99		-	-	75-125	-	20
Calcium, Dissolved	31500	10000	36900	**54**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.2748J	200	180.9	90		-	-	75-125	-	20
Cobalt, Dissolved	0.2237J	500	480.4	96		-	-	75-125	-	20
Copper, Dissolved	2.925	250	251.2	99		-	-	75-125	-	20
Iron, Dissolved	50.1	1000	1050	100		-	-	75-125	-	20
Lead, Dissolved	ND	530	534.3	101		-	-	75-125	-	20
Magnesium, Dissolved	12000	10000	19600	76		-	-	75-125	-	20
Manganese, Dissolved	4.750	500	445.1	88		-	-	75-125	-	20
Nickel, Dissolved	2.390	500	488.5	97		-	-	75-125	-	20
Potassium, Dissolved	3890	10000	12400	85		-	-	75-125	-	20
Selenium, Dissolved	ND	120	109	91		-	-	75-125	-	20
Silver, Dissolved	ND	50	50.04	100		-	-	75-125	-	20
Sodium, Dissolved	28000	10000	35600	76		-	-	75-125	-	20
Thallium, Dissolved	ND	120	123.7	103		-	-	75-125	-	20
Vanadium, Dissolved	ND	500	451.9	90		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950096-3 QC Sample: L2441149-13 Client ID: DEP51-W1									
Zinc, Dissolved	3.552J	500	489.2	98	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950098-3 QC Sample: L2441149-14 Client ID: DEP51-W2									
Mercury, Dissolved	ND	5	5.104	102	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1950082-4 QC Sample: L2441006-01 Client ID: DUP Sample						
Arsenic, Total	4.11	4.13	mg/kg	0		20
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1950083-4 QC Sample: L2440891-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950093-4 QC Sample: L2441149-13 Client ID: DEP51-W1					
Aluminum, Total	60.9	54.9	ug/l	10	20
Antimony, Total	1.215J	1.095J	ug/l	NC	20
Arsenic, Total	0.9562	0.9548	ug/l	0	20
Barium, Total	45.70	44.41	ug/l	3	20
Beryllium, Total	ND	ND	ug/l	NC	20
Cadmium, Total	ND	ND	ug/l	NC	20
Calcium, Total	31100	29900	ug/l	4	20
Chromium, Total	0.3406J	0.3212J	ug/l	NC	20
Cobalt, Total	0.3777J	0.3516J	ug/l	NC	20
Copper, Total	3.167	2.880	ug/l	9	20
Iron, Total	169.	165	ug/l	2	20
Lead, Total	1.069	1.023	ug/l	4	20
Magnesium, Total	12100	11600	ug/l	4	20
Manganese, Total	45.85	44.06	ug/l	4	20
Nickel, Total	1.761J	1.757J	ug/l	NC	20
Potassium, Total	3820	3600	ug/l	6	20
Selenium, Total	ND	ND	ug/l	NC	20
Silver, Total	ND	ND	ug/l	NC	20
Sodium, Total	28800	27600	ug/l	4	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950093-4 QC Sample: L2441149-13 Client ID: DEP51-W1					
Thallium, Total	ND	ND	ug/l	NC	20
Vanadium, Total	ND	ND	ug/l	NC	20
Zinc, Total	7.520J	7.041J	ug/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950095-4 QC Sample: L2441149-14 Client ID: DEP51-W2					
Mercury, Total	0.2490	0.1280J	ug/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950096-4 QC Sample: L2441149-13 Client ID: DEP51-W1					
Aluminum, Dissolved	8.49J	8.10J	ug/l	NC	20
Antimony, Dissolved	0.6591J	1.708J	ug/l	NC	20
Arsenic, Dissolved	0.9911	1.025	ug/l	3	20
Barium, Dissolved	43.00	42.52	ug/l	1	20
Beryllium, Dissolved	ND	ND	ug/l	NC	20
Cadmium, Dissolved	ND	ND	ug/l	NC	20
Calcium, Dissolved	31500	31300	ug/l	1	20
Chromium, Dissolved	0.2748J	0.3535J	ug/l	NC	20
Cobalt, Dissolved	0.2237J	0.2392J	ug/l	NC	20
Copper, Dissolved	2.925	2.478	ug/l	17	20
Iron, Dissolved	50.1	32.2J	ug/l	NC	20
Lead, Dissolved	ND	ND	ug/l	NC	20
Magnesium, Dissolved	12000	12300	ug/l	2	20
Manganese, Dissolved	4.750	4.846	ug/l	2	20
Nickel, Dissolved	2.390	1.882J	ug/l	NC	20
Potassium, Dissolved	3890	3960	ug/l	2	20
Selenium, Dissolved	ND	ND	ug/l	NC	20
Silver, Dissolved	ND	ND	ug/l	NC	20
Sodium, Dissolved	28000	28800	ug/l	3	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950096-4 QC Sample: L2441149-13 Client ID: DEP51-W1					
Thallium, Dissolved	ND	ND	ug/l	NC	20
Vanadium, Dissolved	ND	ND	ug/l	NC	20
Zinc, Dissolved	3.552J	3.505J	ug/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 13-17 QC Batch ID: WG1950098-4 QC Sample: L2441149-14 Client ID: DEP51-W2					
Mercury, Dissolved	ND	ND	ug/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-01
Client ID: DEP51-S1
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 10:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.9		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	0.212	J	mg/kg	0.809	0.162	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-02
Client ID: DEP51-S2
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 10:45
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.0		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	3.73		mg/kg	0.851	0.170	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-03
Client ID: DEP51-S3
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 10:50
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.8		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.826	0.165	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-04
Client ID: DEP51-S4
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.7		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.827	0.165	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-05
Client ID: DEP51-S5
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.8		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.08	0.217	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-06
Client ID: DEP51-S6
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.990	0.198	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-07
Client ID: DEP51-S7
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.3		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	0.273	J	mg/kg	1.09	0.218	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-08
Client ID: DEP51-S8
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:20
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.3		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.33	0.265	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-09
Client ID: DEP51-S9
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:25
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.990	0.198	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-10
Client ID: DEP51-S10
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:30
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.0		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.33	0.267	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-11
Client ID: DEP51-S11
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 11:40
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	0.928	0.186	1	07/23/24 09:09	07/24/24 04:07	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-12
Client ID: DUP-S
Sample Location: 51ST ST. PHILA PA

Sample Depth:
Matrix: Soil

Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.0		%	0.100	NA	1	-	07/23/24 08:53	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.04	0.208	1	07/23/24 09:09	07/24/24 04:07	1,7196A	DTH

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-13
Client ID: DEP51-W1
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 12:05
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	07/23/24 05:45	07/23/24 06:25	1,7196A	CAR

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-14
Client ID: DEP51-W2
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 12:10
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	07/23/24 05:45	07/23/24 06:25	1,7196A	CAR

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-15
Client ID: DEP51-W3
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 12:15
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	07/23/24 05:45	07/23/24 06:26	1,7196A	CAR

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-16
Client ID: DEP51-W4
Sample Location: 51ST ST. PHILA PA

Date Collected: 07/22/24 13:00
Date Received: 07/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	07/23/24 05:45	07/23/24 06:26	1,7196A	CAR

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

SAMPLE RESULTS

Lab ID: L2441149-17
Client ID: DUP-W
Sample Location: 51ST ST. PHILA PA

Sample Depth:
Matrix: Water

Date Collected: 07/22/24 00:00
Date Received: 07/22/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	07/23/24 05:45	07/23/24 06:26	1,7196A	CAR

Project Name: ALLIANCE 51ST
Project Number: 30108678.07
Lab Number: L2441149
Report Date: 07/29/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 13-17 Batch: WG1950068-1										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	07/23/24 05:45	07/23/24 06:24	1,7196A	CAR
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1950127-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	07/23/24 09:09	07/24/24 03:52	1,7196A	DTH
General Chemistry - Westborough Lab for sample(s): 11-12 Batch: WG1950129-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	07/23/24 09:09	07/24/24 04:07	1,7196A	DTH

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678.07

Lab Number: L2441149

Report Date: 07/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-17 Batch: WG1950068-2								
Chromium, Hexavalent	99		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1950127-2								
Chromium, Hexavalent	95		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-12 Batch: WG1950129-2								
Chromium, Hexavalent	95		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-17 QC Batch ID: WG1950068-4 QC Sample: L2441149-13 Client ID: DEP51-W1												
Chromium, Hexavalent	ND	100	101	101		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1950127-4 QC Sample: L2441149-06 Client ID: DEP51-S6												
Chromium, Hexavalent	ND	1580	1520	96		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-12 QC Batch ID: WG1950129-4 QC Sample: L2441149-11 Client ID: DEP51-S11												
Chromium, Hexavalent	ND	1230	554	**45**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-17 QC Batch ID: WG1950068-3 QC Sample: L2441149-13 Client ID: DEP51-W1						
Chromium, Hexavalent	ND	ND	ug/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1950112-1 QC Sample: L2437747-04 Client ID: DUP Sample						
Solids, Total	88.3	88.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1950127-6 QC Sample: L2441149-06 Client ID: DEP51-S6						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 11-12 QC Batch ID: WG1950129-6 QC Sample: L2441149-11 Client ID: DEP51-S11						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-01A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2441149-01B	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-01C	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-01D	Plastic 120ml unpreserved	B	NA		3.5	Y	Absent		TS(7)
L2441149-01E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2441149-01F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2441149-02A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2441149-02B	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-02C	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-02D	Plastic 120ml unpreserved	B	NA		3.5	Y	Absent		TS(7)
L2441149-02E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2441149-02F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2441149-03A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2441149-03B	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-03C	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-03D	Plastic 120ml unpreserved	B	NA		3.5	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-03E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2441149-03F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2441149-04A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2441149-04B	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-04C	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-04D	Plastic 120ml unpreserved	B	NA		3.5	Y	Absent		TS(7)
L2441149-04E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2441149-04F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2441149-05A	Vial MeOH preserved	B	NA		3.5	Y	Absent		PA-8260HLW(14)
L2441149-05B	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-05C	Vial water preserved	B	NA		3.5	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-05D	Plastic 120ml unpreserved	B	NA		3.5	Y	Absent		TS(7)
L2441149-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2441149-05F	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		HEXCR-7196(30)
L2441149-06A	Vial MeOH preserved	A	NA		5.3	Y	Absent		PA-8260HLW(14)
L2441149-06B	Vial water preserved	A	NA		5.3	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-06C	Vial water preserved	A	NA		5.3	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-06D	Plastic 120ml unpreserved	A	NA		5.3	Y	Absent		TS(7)
L2441149-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-06F	Glass 120ml/4oz unpreserved	A	NA		5.3	Y	Absent		HEXCR-7196(30)
L2441149-07A	Vial MeOH preserved	C	NA		4.1	Y	Absent		PA-8260HLW(14)
L2441149-07B	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-07C	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-07D	Plastic 120ml unpreserved	C	NA		4.1	Y	Absent		TS(7)
L2441149-07E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2441149-07F	Glass 120ml/4oz unpreserved	C	NA		4.1	Y	Absent		HEXCR-7196(30)
L2441149-08A	Vial MeOH preserved	C	NA		4.1	Y	Absent		PA-8260HLW(14)
L2441149-08B	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-08C	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-08D	Plastic 120ml unpreserved	C	NA		4.1	Y	Absent		TS(7)
L2441149-08E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2441149-08F	Glass 120ml/4oz unpreserved	C	NA		4.1	Y	Absent		HEXCR-7196(30)
L2441149-09A	Vial MeOH preserved	C	NA		4.1	Y	Absent		PA-8260HLW(14)
L2441149-09B	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-09C	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-09D	Plastic 120ml unpreserved	C	NA		4.1	Y	Absent		TS(7)
L2441149-09E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2441149-09F	Glass 120ml/4oz unpreserved	C	NA		4.1	Y	Absent		HEXCR-7196(30)
L2441149-10A	Vial MeOH preserved	C	NA		4.1	Y	Absent		PA-8260HLW(14)
L2441149-10B	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678.07

Lab Number: L2441149
Report Date: 07/29/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-10C	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-10D	Plastic 120ml unpreserved	C	NA		4.1	Y	Absent		TS(7)
L2441149-10E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2441149-10F	Glass 120ml/4oz unpreserved	C	NA		4.1	Y	Absent		HEXCR-7196(30)
L2441149-11A	Vial MeOH preserved	C	NA		4.1	Y	Absent		PA-8260HLW(14)
L2441149-11B	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-11C	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-11D	Plastic 120ml unpreserved	C	NA		4.1	Y	Absent		TS(7)
L2441149-11E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2441149-11F	Glass 120ml/4oz unpreserved	C	NA		4.1	Y	Absent		HEXCR-7196(30)
L2441149-12A	Vial MeOH preserved	C	NA		4.1	Y	Absent		PA-8260HLW(14)
L2441149-12B	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-12C	Vial water preserved	C	NA		4.1	Y	Absent	23-JUL-24 05:27	PA-8260HLW(14)
L2441149-12D	Plastic 120ml unpreserved	C	NA		4.1	Y	Absent		TS(7)
L2441149-12E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2441149-12F	Glass 120ml/4oz unpreserved	C	NA		4.1	Y	Absent		HEXCR-7196(30)
L2441149-13A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-13B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-13C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-13D	Plastic 250ml unpreserved	A	7	7	5.3	Y	Absent		-

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-13E	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		CO-6020T-PPB(180),AL-6020T-PPB(180),SB-6020T-PPB(180),CR-6020T-PPB(180),HG-T-PPB(28),BE-6020T-PPB(180),CD-6020T-PPB(180),CA-6020T-PPB(180),CU-6020T-PPB(180),BA-6020T-PPB(180),TL-6020T-PPB(180),AG-6020T-PPB(180),PB-6020T-PPB(180),K-6020T-PPB(180),AS-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),ZN-6020T-PPB(180),MG-6020T-PPB(180),NI-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180)
L2441149-13F	Plastic 500ml unpreserved	A	7	7	5.3	Y	Absent		HEXCR-7196-PPB(1)
L2441149-13X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	5.3	Y	Absent		PB-6020S-PPB(180),AG-6020S-PPB(180),BE-6020S-PPB(180),K-6020S-PPB(180),TL-6020S-PPB(180),HG-S-PPB(28),ZN-6020S-PPB(180),CU-6020S-PPB(180),CD-6020S-PPB(180),CO-6020S-PPB(180),SB-6020S-PPB(180),AS-6020S-PPB(180),CR-6020S-PPB(180),MN-6020S-PPB(180),BA-6020S-PPB(180),FE-6020S-PPB(180),MG-6020S-PPB(180),CA-6020S-PPB(180),NA-6020S-PPB(180),V-6020S-PPB(180),AL-6020S-PPB(180),NI-6020S-PPB(180),SE-6020S-PPB(180)
L2441149-14A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-14B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-14C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-14D	Plastic 250ml unpreserved	A	7	7	5.3	Y	Absent		-
L2441149-14E	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		AL-6020T-PPB(180),CO-6020T-PPB(180),CD-6020T-PPB(180),HG-T-PPB(28),SB-6020T-PPB(180),CR-6020T-PPB(180),BE-6020T-PPB(180),CA-6020T-PPB(180),CU-6020T-PPB(180),BA-6020T-PPB(180),TL-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),AS-6020T-PPB(180),AG-6020T-PPB(180),FE-6020T-PPB(180),NI-6020T-PPB(180),ZN-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180)
L2441149-14F	Plastic 500ml unpreserved	A	7	7	5.3	Y	Absent		HEXCR-7196-PPB(1)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-14X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	5.3	Y	Absent		PB-6020S-PPB(180),K-6020S-PPB(180),AG-6020S-PPB(180),BE-6020S-PPB(180),TL-6020S-PPB(180),HG-S-PPB(28),ZN-6020S-PPB(180),CU-6020S-PPB(180),CO-6020S-PPB(180),CD-6020S-PPB(180),SB-6020S-PPB(180),AS-6020S-PPB(180),MN-6020S-PPB(180),CR-6020S-PPB(180),NA-6020S-PPB(180),FE-6020S-PPB(180),BA-6020S-PPB(180),MG-6020S-PPB(180),V-6020S-PPB(180),CA-6020S-PPB(180),AL-6020S-PPB(180),NI-6020S-PPB(180),SE-6020S-PPB(180)
L2441149-15A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-15B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-15C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-15D	Plastic 250ml unpreserved	A	7	7	5.3	Y	Absent		-
L2441149-15E	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		AL-6020T-PPB(180),CO-6020T-PPB(180),BE-6020T-PPB(180),CR-6020T-PPB(180),SB-6020T-PPB(180),CD-6020T-PPB(180),HG-T-PPB(28),CA-6020T-PPB(180),CU-6020T-PPB(180),TL-6020T-PPB(180),BA-6020T-PPB(180),K-6020T-PPB(180),AG-6020T-PPB(180),AS-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),MG-6020T-PPB(180),NI-6020T-PPB(180),ZN-6020T-PPB(180),V-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180)
L2441149-15F	Plastic 500ml unpreserved	A	7	7	5.3	Y	Absent		HEXCR-7196-PPB(1)
L2441149-15X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	5.3	Y	Absent		PB-6020S-PPB(180),K-6020S-PPB(180),AG-6020S-PPB(180),BE-6020S-PPB(180),TL-6020S-PPB(180),HG-S-PPB(28),ZN-6020S-PPB(180),CO-6020S-PPB(180),CD-6020S-PPB(180),CU-6020S-PPB(180),MN-6020S-PPB(180),CR-6020S-PPB(180),AS-6020S-PPB(180),SB-6020S-PPB(180),BA-6020S-PPB(180),MG-6020S-PPB(180),CA-6020S-PPB(180),NA-6020S-PPB(180),V-6020S-PPB(180),FE-6020S-PPB(180),AL-6020S-PPB(180),SE-6020S-PPB(180),NI-6020S-PPB(180)
L2441149-16A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-16B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-16C	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-16D	Plastic 250ml unpreserved	A	7	7	5.3	Y	Absent		-

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-16E	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		CO-6020T-PPB(180),AL-6020T-PPB(180),CD-6020T-PPB(180),SB-6020T-PPB(180),BE-6020T-PPB(180),HG-T-PPB(28),CR-6020T-PPB(180),CU-6020T-PPB(180),CA-6020T-PPB(180),BA-6020T-PPB(180),TL-6020T-PPB(180),AS-6020T-PPB(180),PB-6020T-PPB(180),AG-6020T-PPB(180),K-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),ZN-6020T-PPB(180),MG-6020T-PPB(180),NI-6020T-PPB(180),V-6020T-PPB(180),SE-6020T-PPB(180),MN-6020T-PPB(180)
L2441149-16F	Plastic 500ml unpreserved	A	7	7	5.3	Y	Absent		HEXCR-7196-PPB(1)
L2441149-16X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	5.3	Y	Absent		PB-6020S-PPB(180),TL-6020S-PPB(180),K-6020S-PPB(180),AG-6020S-PPB(180),BE-6020S-PPB(180),ZN-6020S-PPB(180),HG-S-PPB(28),CU-6020S-PPB(180),CD-6020S-PPB(180),CO-6020S-PPB(180),CR-6020S-PPB(180),MN-6020S-PPB(180),AS-6020S-PPB(180),SB-6020S-PPB(180),BA-6020S-PPB(180),FE-6020S-PPB(180),NA-6020S-PPB(180),CA-6020S-PPB(180),MG-6020S-PPB(180),V-6020S-PPB(180),AL-6020S-PPB(180),SE-6020S-PPB(180),NI-6020S-PPB(180)
L2441149-17A	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-17B	Vial HCl preserved	A	NA		5.3	Y	Absent		PA-8260-SIM(14),PA-8260(14)
L2441149-17D	Plastic 250ml unpreserved	A	7	7	5.3	Y	Absent		-
L2441149-17E	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		CO-6020T-PPB(180),AL-6020T-PPB(180),SB-6020T-PPB(180),CD-6020T-PPB(180),CR-6020T-PPB(180),HG-T-PPB(28),BE-6020T-PPB(180),CA-6020T-PPB(180),CU-6020T-PPB(180),TL-6020T-PPB(180),BA-6020T-PPB(180),K-6020T-PPB(180),AS-6020T-PPB(180),AG-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NI-6020T-PPB(180),ZN-6020T-PPB(180),NA-6020T-PPB(180),MG-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180)
L2441149-17F	Plastic 500ml unpreserved	A	7	7	5.3	Y	Absent		HEXCR-7196-PPB(1)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2441149-17X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	5.3	Y	Absent		PB-6020S-PPB(180),BE-6020S-PPB(180),K-6020S-PPB(180),TL-6020S-PPB(180),AG-6020S-PPB(180),HG-S-PPB(28),ZN-6020S-PPB(180),CU-6020S-PPB(180),CO-6020S-PPB(180),CD-6020S-PPB(180),CR-6020S-PPB(180),AS-6020S-PPB(180),SB-6020S-PPB(180),MN-6020S-PPB(180),FE-6020S-PPB(180),V-6020S-PPB(180),BA-6020S-PPB(180),MG-6020S-PPB(180),NA-6020S-PPB(180),CA-6020S-PPB(180),NI-6020S-PPB(180),SE-6020S-PPB(180),AL-6020S-PPB(180)

*Values in parentheses indicate holding time in days

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GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

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REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

L2441149 24JUL24
LEVINE – NJ

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 3

Date Rec'd in Lab 7/23/24

Client Information

Client: Arcadis
Address: 1 Harvard Cwy Rd
Middlebrook NJ
Phone: 732-926-1566
Fax:
Email: Larry.Bird@arcadis.com

Project Information

Project Name: Allegra 5/52
Project Location: Philly, PA
Project #: 30108678.E7
(Use Project name as Project #)
Project Manager: Larry Bird
ALPHAQuote #:

Turn-Around Time

Standard
Rush (only if pre approved)
Due Date:
# of Days:

These samples have been previously analyzed by Alpha

Deliverables

NJ Full / Reduced
EQuIS (1 File) EQuIS (4 File)
Other

PO #

Regulatory Requirement

SRS Residential/Non Residential
SRS Impact to Groundwater
NJ Ground Water Quality Standards
NJ IGW SPLP Leachate Criteria
Other

Site Information

Is this site impacted by Petroleum? Yes
Petroleum Product:

For EPH, selection is REQUIRED:
Category 1
Category 2

For VOC, selection is REQUIRED:
1,4-Dioxane
8011

Other project specific requirements/comments:
Hex Cr, TAL Metals 48 hr TAT
Please specify Metals or TAL
Per soil and water
VOC, Normal TAT

ANALYSIS

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC +10	HEX Cr	Filtered Cr	TAL Metals	Trivalent Cr				Sample Specific Comments
41149-01	DEP81-S1	7/22/24	1030	SO1	MN	X	X		X	X				
-02	DEP81-S2		1045			X	X		X	X				
-03	DEP81-S3		1050			X	X		X	X				
-04	DEP81-S4		1100			X	X		X	X				
-05	DEP81-S5		1105			X	X		X	X				
-06	DEP81-S6		1110			X	X		X	X				
-07	DEP81-S7		1115			X	X		X	X				
-08	DEP81-S8		1120			X	X		X	X				
-09	DEP81-S9		1125			X	X		X	X				
-10	DEP81-S10		1130			X	X		X	X				

Container Type: V A A A
Preservative: O A A N

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other – Ascorbic

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Lichtig	7/22/24 1640	Pres Bar FACE	07-22-24 1630
Pres Bar FACE	07-22-24 1800		7/22/24 1800
	7/22/24 2100	Anthony Green	JUL 22 2024 2205
Anthony Green			7/23/24 0015

7/23/24 0225 Thank you 7/23/24 0225

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 7/23/24

ALPHA Job #: L2441149

Client Information
Client: Arcadis
Address: 1 Merkam Way Ste 5 Hillsborough NJ
Phone: 908-526 7ar
Fax:
Email: Larry.Grant@arcadis.com

Project Information
Project Name: Alliance S/SA
Project Location: Phila, PA
Project #: 30108678.07
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Hex Cr, TAL Metals 48 hr TAT for Soil and water
~~Please specify Metals or TAL.~~
VOCs Normal TAT

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC +10	Hex Cr	TAL Metals	Trivalent Cr	VOC +10	Hex Cr	Total Metals	Dissolved Mtls	Total Bottle
41149-11	DEPA1-S11	7/22/24	1140	Soil	MP	X		X	X					6
-12	DUP-5		X			X	X	X	X					6
-13	DEPA1-W1		1255	AQ						X	X	X	X	6
-14	DEPA1-W2		1210							X	X	X	X	6
-15	DEPA1-W3		1215							X	X	X	X	6
-16	DEPA1-W4		1300							X	X	X	X	6
-17	DUP-W		X							X	X	X	X	6

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other HCl

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V	A	A	A	A/H	D	P	P
Preservative	O	A	A	A	B	A	C	A

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	7/22/24 1621	[illegible]	07-22-24 16:20
[illegible]	07-22-24 1800	[illegible]	7/22/24 1800
Anthony Green	7/22/24 2100	Anthony Green	JUL 22 2024 2205
Anthony Green	7/23/24 0225	[illegible]	7/23/24 0225

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2445674
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST
Project Number:	30108678
Report Date:	08/16/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2445674-01	DEP51-S3-240813	SOIL	PHILA, PA	08/13/24 10:45	08/13/24
L2445674-02	DEP51-S5-240813	SOIL	PHILA, PA	08/13/24 11:10	08/13/24
L2445674-03	DEP51-S6-240813	SOIL	PHILA, PA	08/13/24 11:20	08/13/24
L2445674-04	DEP51-S8A-240813	SOIL	PHILA, PA	08/13/24 11:30	08/13/24
L2445674-05	DEP51-S10A-240813	SOIL	PHILA, PA	08/13/24 11:35	08/13/24
L2445674-06	DEP51-S12-240813	SOIL	PHILA, PA	08/13/24 10:51	08/13/24
L2445674-07	DEP51-S13-240813	SOIL	PHILA, PA	08/13/24 11:05	08/13/24
L2445674-08	DEP51-S14-240813	SOIL	PHILA, PA	08/13/24 11:45	08/13/24
L2445674-09	DEP51-S15-240813	SOIL	PHILA, PA	08/13/24 11:55	08/13/24
L2445674-10	DEP51-S7-240813	SOIL	PHILA, PA	08/13/24 11:25	08/13/24
L2445674-11	DUP-S 240813	SOIL	PHILA, PA	08/13/24 00:00	08/13/24
L2445674-12	DEP51-W5-240813	WATER	PHILA, PA	08/13/24 12:30	08/13/24
L2445674-13	DEP51-W6-240813	WATER	PHILA, PA	08/13/24 12:55	08/13/24

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2445674
Project Number:	30108678	**Report Date:**	08/16/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2445674
Project Number:	30108678	**Report Date:**	08/16/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2445674-01 through -13: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

Chromium, Hexavalent

The WG1959251-5 Soluble MS recovery for chromium, hexavalent (71%), performed on L2445674-11, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 89%.

The WG1959316-6 Laboratory Duplicate RPD for chromium, hexavalent (26%), performed on L2445674-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 08/16/24

METALS

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-01
Client ID: DEP51-S3-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 10:45
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	11000		mg/kg	8.74	2.36	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	4.37	0.332	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Arsenic, Total	6.46		mg/kg	0.874	0.182	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Barium, Total	120		mg/kg	0.874	0.152	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.542		mg/kg	0.437	0.029	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.340	J	mg/kg	0.874	0.086	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Calcium, Total	36100		mg/kg	8.74	3.06	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Chromium, Total	828		mg/kg	0.874	0.084	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Cobalt, Total	12.3		mg/kg	1.75	0.145	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Copper, Total	32.7		mg/kg	0.874	0.226	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Iron, Total	18400		mg/kg	4.37	0.790	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Lead, Total	68.5		mg/kg	4.37	0.234	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Magnesium, Total	7140		mg/kg	8.74	1.35	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Manganese, Total	401		mg/kg	0.874	0.139	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Mercury, Total	0.089		mg/kg	0.080	0.052	1	08/14/24 23:55	08/15/24 08:14	EPA 7471B	1,7471B	JWN
Nickel, Total	42.3		mg/kg	2.19	0.212	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Potassium, Total	5760		mg/kg	219	12.6	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.75	0.226	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.437	0.247	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Sodium, Total	149	J	mg/kg	175	2.75	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.75	0.275	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Vanadium, Total	42.6		mg/kg	0.874	0.178	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF
Zinc, Total	184		mg/kg	4.37	0.256	2	08/14/24 22:56	08/15/24 20:08	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-02
Client ID: DEP51-S5-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:10
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6320		mg/kg	9.80	2.65	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	4.90	0.372	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Arsenic, Total	3.99		mg/kg	0.980	0.204	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Barium, Total	77.5		mg/kg	0.980	0.170	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.372	J	mg/kg	0.490	0.032	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.301	J	mg/kg	0.980	0.096	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Calcium, Total	10700		mg/kg	9.80	3.43	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Chromium, Total	246		mg/kg	0.980	0.094	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Cobalt, Total	7.32		mg/kg	1.96	0.163	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Copper, Total	27.2		mg/kg	0.980	0.253	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Iron, Total	18300		mg/kg	4.90	0.885	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Lead, Total	132		mg/kg	4.90	0.263	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Magnesium, Total	4300		mg/kg	9.80	1.51	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Manganese, Total	274		mg/kg	0.980	0.156	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.089	0.058	1	08/14/24 23:55	08/15/24 08:48	EPA 7471B	1,7471B	JWN
Nickel, Total	22.4		mg/kg	2.45	0.237	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Potassium, Total	3450		mg/kg	245	14.1	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.96	0.253	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.490	0.277	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Sodium, Total	169	J	mg/kg	196	3.09	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.96	0.309	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Vanadium, Total	22.7		mg/kg	0.980	0.199	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF
Zinc, Total	164		mg/kg	4.90	0.287	2	08/14/24 22:56	08/15/24 20:16	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-03
Client ID: DEP51-S6-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:20
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5690		mg/kg	17.8	4.80	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Antimony, Total	5.88	J	mg/kg	8.90	0.676	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Arsenic, Total	8.96		mg/kg	1.78	0.370	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Barium, Total	74.5		mg/kg	1.78	0.310	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.529	J	mg/kg	0.890	0.059	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.875	J	mg/kg	1.78	0.174	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Calcium, Total	13300		mg/kg	17.8	6.23	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Chromium, Total	522		mg/kg	1.78	0.171	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Cobalt, Total	11.7		mg/kg	3.56	0.295	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Copper, Total	81.3		mg/kg	1.78	0.459	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Iron, Total	51900		mg/kg	8.90	1.61	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Lead, Total	1060		mg/kg	8.90	0.477	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Magnesium, Total	4210		mg/kg	17.8	2.74	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Manganese, Total	483		mg/kg	1.78	0.283	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.074	0.048	1	08/14/24 23:55	08/15/24 08:51	EPA 7471B	1,7471B	JWN
Nickel, Total	40.9		mg/kg	4.45	0.430	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Potassium, Total	2420		mg/kg	445	25.6	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Selenium, Total	0.734	J	mg/kg	3.56	0.459	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.890	0.504	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Sodium, Total	141	J	mg/kg	356	5.60	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	3.56	0.560	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Vanadium, Total	29.0		mg/kg	1.78	0.361	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF
Zinc, Total	311		mg/kg	8.90	0.521	4	08/14/24 22:56	08/15/24 22:28	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-04
Client ID: DEP51-S8A-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:30
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 64%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3840		mg/kg	11.8	3.19	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	5.90	0.449	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Arsenic, Total	5.93		mg/kg	1.18	0.246	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Barium, Total	44.1		mg/kg	1.18	0.205	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.220	J	mg/kg	0.590	0.039	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.392	J	mg/kg	1.18	0.116	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Calcium, Total	12800		mg/kg	11.8	4.13	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Chromium, Total	204		mg/kg	1.18	0.113	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Cobalt, Total	6.04		mg/kg	2.36	0.196	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Copper, Total	25.3		mg/kg	1.18	0.305	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Iron, Total	34600		mg/kg	5.90	1.07	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Lead, Total	80.3		mg/kg	5.90	0.316	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Magnesium, Total	3840		mg/kg	11.8	1.82	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Manganese, Total	267		mg/kg	1.18	0.188	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.098	0.064	1	08/14/24 23:55	08/15/24 08:54	EPA 7471B	1,7471B	JWN
Nickel, Total	15.1		mg/kg	2.95	0.286	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Potassium, Total	1710		mg/kg	295	17.0	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	2.36	0.305	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.590	0.334	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Sodium, Total	94.0	J	mg/kg	236	3.72	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.36	0.372	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Vanadium, Total	16.0		mg/kg	1.18	0.240	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF
Zinc, Total	86.2		mg/kg	5.90	0.346	2	08/14/24 22:56	08/15/24 20:47	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-05
Client ID: DEP51-S10A-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:35
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7860		mg/kg	11.0	2.98	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Antimony, Total	0.893	J	mg/kg	5.51	0.419	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Arsenic, Total	8.72		mg/kg	1.10	0.229	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Barium, Total	92.5		mg/kg	1.10	0.192	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.514	J	mg/kg	0.551	0.036	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.477	J	mg/kg	1.10	0.108	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Calcium, Total	23100		mg/kg	11.0	3.86	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Chromium, Total	535		mg/kg	1.10	0.106	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Cobalt, Total	11.5		mg/kg	2.20	0.183	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Copper, Total	50.7		mg/kg	1.10	0.284	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Iron, Total	16700		mg/kg	5.51	0.996	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Lead, Total	223		mg/kg	5.51	0.296	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Magnesium, Total	10600		mg/kg	11.0	1.70	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Manganese, Total	411		mg/kg	1.10	0.175	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Mercury, Total	0.110		mg/kg	0.087	0.057	1	08/14/24 23:55	08/15/24 08:58	EPA 7471B	1,7471B	JWN
Nickel, Total	34.7		mg/kg	2.76	0.267	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Potassium, Total	2820		mg/kg	276	15.9	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Selenium, Total	0.297	J	mg/kg	2.20	0.284	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.551	0.312	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Sodium, Total	180	J	mg/kg	220	3.47	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.20	0.347	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Vanadium, Total	35.2		mg/kg	1.10	0.224	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF
Zinc, Total	244		mg/kg	5.51	0.323	2	08/14/24 22:56	08/15/24 20:54	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-06
Client ID: DEP51-S12-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 10:51
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	9440		mg/kg	10.8	2.91	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Antimony, Total	0.783	J	mg/kg	5.38	0.409	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Arsenic, Total	9.93		mg/kg	1.08	0.224	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Barium, Total	126		mg/kg	1.08	0.187	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.536	J	mg/kg	0.538	0.036	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.546	J	mg/kg	1.08	0.106	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Calcium, Total	26500		mg/kg	10.8	3.77	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Chromium, Total	822		mg/kg	1.08	0.103	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Cobalt, Total	12.9		mg/kg	2.15	0.179	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Copper, Total	59.0		mg/kg	1.08	0.278	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Iron, Total	18100		mg/kg	5.38	0.972	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Lead, Total	145		mg/kg	5.38	0.289	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Magnesium, Total	5630		mg/kg	10.8	1.66	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Manganese, Total	391		mg/kg	1.08	0.171	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Mercury, Total	0.173		mg/kg	0.095	0.062	1	08/14/24 23:55	08/15/24 09:01	EPA 7471B	1,7471B	JWN
Nickel, Total	46.3		mg/kg	2.69	0.261	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Potassium, Total	3740		mg/kg	269	15.5	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Selenium, Total	0.394	J	mg/kg	2.15	0.278	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.538	0.305	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Sodium, Total	170	J	mg/kg	215	3.39	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.15	0.339	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Vanadium, Total	44.0		mg/kg	1.08	0.219	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF
Zinc, Total	278		mg/kg	5.38	0.316	2	08/14/24 22:56	08/15/24 21:01	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-07
Client ID: DEP51-S13-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:05
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 98%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	8390		mg/kg	7.83	2.11	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Antimony, Total	0.646	J	mg/kg	3.92	0.298	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Arsenic, Total	6.25		mg/kg	0.783	0.163	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Barium, Total	107		mg/kg	0.783	0.136	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.451		mg/kg	0.392	0.026	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.401	J	mg/kg	0.783	0.077	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Calcium, Total	35600		mg/kg	7.83	2.74	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Chromium, Total	412		mg/kg	0.783	0.075	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Cobalt, Total	9.70		mg/kg	1.57	0.130	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Copper, Total	39.1		mg/kg	0.783	0.202	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Iron, Total	20200		mg/kg	3.92	0.707	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Lead, Total	1290		mg/kg	3.92	0.210	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Magnesium, Total	7150		mg/kg	7.83	1.21	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Manganese, Total	386		mg/kg	0.783	0.124	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Mercury, Total	0.057	J	mg/kg	0.072	0.047	1	08/14/24 23:55	08/15/24 09:04	EPA 7471B	1,7471B	JWN
Nickel, Total	29.9		mg/kg	1.96	0.190	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Potassium, Total	4260		mg/kg	196	11.3	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.57	0.202	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.392	0.222	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Sodium, Total	309		mg/kg	157	2.47	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.57	0.247	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Vanadium, Total	32.1		mg/kg	0.783	0.159	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF
Zinc, Total	197		mg/kg	3.92	0.230	2	08/14/24 22:56	08/15/24 21:08	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-08
Client ID: DEP51-S14-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:45
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 62%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12500		mg/kg	11.9	3.23	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Antimony, Total	2.05	J	mg/kg	5.97	0.454	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Arsenic, Total	6.80		mg/kg	1.19	0.248	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Barium, Total	491		mg/kg	1.19	0.208	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.725		mg/kg	0.597	0.039	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.631	J	mg/kg	1.19	0.117	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Calcium, Total	18800		mg/kg	11.9	4.18	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Chromium, Total	292		mg/kg	1.19	0.115	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Cobalt, Total	18.6		mg/kg	2.39	0.198	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Copper, Total	121		mg/kg	1.19	0.308	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Iron, Total	27000		mg/kg	5.97	1.08	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Lead, Total	253		mg/kg	5.97	0.320	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Magnesium, Total	9510		mg/kg	11.9	1.84	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Manganese, Total	456		mg/kg	1.19	0.190	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Mercury, Total	0.174		mg/kg	0.105	0.068	1	08/14/24 23:55	08/15/24 09:07	EPA 7471B	1,7471B	JWN
Nickel, Total	38.3		mg/kg	2.99	0.289	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Potassium, Total	4670		mg/kg	299	17.2	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Selenium, Total	0.326	J	mg/kg	2.39	0.308	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Silver, Total	0.731		mg/kg	0.597	0.338	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Sodium, Total	115	J	mg/kg	239	3.76	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.39	0.376	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Vanadium, Total	41.6		mg/kg	1.19	0.242	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF
Zinc, Total	740		mg/kg	5.97	0.350	2	08/14/24 22:56	08/15/24 21:15	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-09
Client ID: DEP51-S15-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:55
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 71%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	6080		mg/kg	11.0	2.97	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Antimony, Total	0.545	J	mg/kg	5.51	0.419	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Arsenic, Total	3.60		mg/kg	1.10	0.229	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Barium, Total	65.6		mg/kg	1.10	0.192	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.383	J	mg/kg	0.551	0.036	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.396	J	mg/kg	1.10	0.108	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Calcium, Total	19900		mg/kg	11.0	3.86	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Chromium, Total	57.1		mg/kg	1.10	0.106	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Cobalt, Total	6.54		mg/kg	2.20	0.183	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Copper, Total	38.3		mg/kg	1.10	0.284	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Iron, Total	12100		mg/kg	5.51	0.995	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Lead, Total	139		mg/kg	5.51	0.295	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Magnesium, Total	12100		mg/kg	11.0	1.70	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Manganese, Total	257		mg/kg	1.10	0.175	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Mercury, Total	0.101		mg/kg	0.089	0.058	1	08/14/24 23:55	08/15/24 09:11	EPA 7471B	1,7471B	JWN
Nickel, Total	12.8		mg/kg	2.75	0.267	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Potassium, Total	2230		mg/kg	275	15.9	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Selenium, Total	0.411	J	mg/kg	2.20	0.284	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.551	0.312	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Sodium, Total	99.1	J	mg/kg	220	3.47	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.20	0.347	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Vanadium, Total	23.7		mg/kg	1.10	0.224	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF
Zinc, Total	118		mg/kg	5.51	0.323	2	08/14/24 22:56	08/15/24 21:22	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-10
Client ID: DEP51-S7-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 11:25
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10600		mg/kg	9.55	2.58	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Antimony, Total	0.614	J	mg/kg	4.77	0.363	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Arsenic, Total	8.89		mg/kg	0.955	0.199	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Barium, Total	119		mg/kg	0.955	0.166	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.574		mg/kg	0.477	0.032	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.566	J	mg/kg	0.955	0.094	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Calcium, Total	16000		mg/kg	9.55	3.34	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Chromium, Total	660		mg/kg	0.955	0.092	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Cobalt, Total	14.3		mg/kg	1.91	0.158	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Copper, Total	45.7		mg/kg	0.955	0.246	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Iron, Total	20500		mg/kg	4.77	0.862	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Lead, Total	154		mg/kg	4.77	0.256	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Magnesium, Total	7600		mg/kg	9.55	1.47	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Manganese, Total	508		mg/kg	0.955	0.152	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Mercury, Total	0.092		mg/kg	0.087	0.057	1	08/14/24 23:55	08/15/24 09:14	EPA 7471B	1,7471B	JWN
Nickel, Total	46.6		mg/kg	2.39	0.231	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Potassium, Total	4730		mg/kg	239	13.7	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Selenium, Total	0.293	J	mg/kg	1.91	0.246	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.477	0.270	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Sodium, Total	157	J	mg/kg	191	3.01	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.91	0.301	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Vanadium, Total	42.8		mg/kg	0.955	0.194	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF
Zinc, Total	276		mg/kg	4.77	0.280	2	08/14/24 22:56	08/15/24 21:28	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-11
Client ID: DUP-S 240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 00:00
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11900		mg/kg	10.7	2.89	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Antimony, Total	0.891	J	mg/kg	5.36	0.407	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Arsenic, Total	11.6		mg/kg	1.07	0.223	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Barium, Total	150		mg/kg	1.07	0.186	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.678		mg/kg	0.536	0.035	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.709	J	mg/kg	1.07	0.105	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Calcium, Total	25900		mg/kg	10.7	3.75	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Chromium, Total	1040		mg/kg	1.07	0.103	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Cobalt, Total	16.4		mg/kg	2.14	0.178	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Copper, Total	63.9		mg/kg	1.07	0.277	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Iron, Total	22200		mg/kg	5.36	0.968	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Lead, Total	220		mg/kg	5.36	0.287	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Magnesium, Total	7370		mg/kg	10.7	1.65	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Manganese, Total	505		mg/kg	1.07	0.170	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Mercury, Total	0.206		mg/kg	0.095	0.062	1	08/14/24 23:55	08/15/24 09:24	EPA 7471B	1,7471B	JWN
Nickel, Total	60.4		mg/kg	2.68	0.259	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Potassium, Total	4870		mg/kg	268	15.4	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Selenium, Total	0.487	J	mg/kg	2.14	0.277	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Silver, Total	0.433	J	mg/kg	0.536	0.303	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Sodium, Total	165	J	mg/kg	214	3.38	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.14	0.338	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Vanadium, Total	54.2		mg/kg	1.07	0.218	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF
Zinc, Total	352		mg/kg	5.36	0.314	2	08/14/24 22:56	08/15/24 21:35	EPA 3050B	1,6010D	JMF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-12
Client ID: DEP51-W5-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 12:30
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		ug/l	50.0	16.4	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Antimony, Total	ND		ug/l	20.00	2.145	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Arsenic, Total	1.310	J	ug/l	2.500	0.8250	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Barium, Total	69.37		ug/l	2.500	0.8650	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		ug/l	2.500	0.5350	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Cadmium, Total	ND		ug/l	1.000	0.2995	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Calcium, Total	94600		ug/l	500.	197.	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Chromium, Total	23850		ug/l	500.0	89.00	500	08/14/24 22:30	08/16/24 09:41	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.8738	J	ug/l	2.500	0.8150	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Copper, Total	2.974	J	ug/l	5.000	1.920	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Iron, Total	ND		ug/l	250	95.5	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Lead, Total	ND		ug/l	5.000	1.715	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Magnesium, Total	8980		ug/l	350.	121.	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Manganese, Total	ND		ug/l	5.000	2.200	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Mercury, Total	ND		ug/l	0.2000	0.0915	1	08/14/24 22:41	08/15/24 12:37	EPA 7470A	1,7470A	MJR
Nickel, Total	ND		ug/l	10.00	2.780	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Potassium, Total	14600		ug/l	500.	154.	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		ug/l	25.0	8.65	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Silver, Total	ND		ug/l	2.000	0.8150	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Sodium, Total	46400		ug/l	500.	146.	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Thallium, Total	1.018	J	ug/l	5.000	0.7150	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Vanadium, Total	ND		ug/l	25.00	7.850	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF
Zinc, Total	ND		ug/l	50.00	17.05	5	08/14/24 22:30	08/16/24 09:28	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-13
Client ID: DEP51-W6-240813
Sample Location: PHILA, PA
Date Collected: 08/13/24 12:55
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	224.		ug/l	50.0	16.4	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Antimony, Total	ND		ug/l	20.00	2.145	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Arsenic, Total	4.636		ug/l	2.500	0.8250	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Barium, Total	57.45		ug/l	2.500	0.8650	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		ug/l	2.500	0.5350	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Cadmium, Total	ND		ug/l	1.000	0.2995	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Calcium, Total	200000		ug/l	500.	197.	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Chromium, Total	33610		ug/l	500.0	89.00	500	08/14/24 22:30	08/16/24 09:46	EPA 3005A	1,6020B	EJF
Cobalt, Total	1.016	J	ug/l	2.500	0.8150	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Copper, Total	6.866		ug/l	5.000	1.920	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Iron, Total	ND		ug/l	250	95.5	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Lead, Total	ND		ug/l	5.000	1.715	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Magnesium, Total	4530		ug/l	350.	121.	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Manganese, Total	ND		ug/l	5.000	2.200	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Mercury, Total	0.0920	J	ug/l	0.2000	0.0915	1	08/14/24 22:41	08/15/24 12:47	EPA 7470A	1,7470A	MJR
Nickel, Total	ND		ug/l	10.00	2.780	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Potassium, Total	16100		ug/l	500.	154.	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		ug/l	25.0	8.65	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Silver, Total	ND		ug/l	2.000	0.8150	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Sodium, Total	60000		ug/l	500.	146.	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		ug/l	5.000	0.7150	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Vanadium, Total	15.50	J	ug/l	25.00	7.850	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF
Zinc, Total	ND		ug/l	50.00	17.05	5	08/14/24 22:30	08/16/24 09:32	EPA 3005A	1,6020B	EJF

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1959238-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Antimony, Total	ND		mg/kg	2.00	0.152	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Barium, Total	ND		mg/kg	0.400	0.070	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Calcium, Total	ND		mg/kg	4.00	1.40	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Cobalt, Total	ND		mg/kg	0.800	0.066	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Copper, Total	ND		mg/kg	0.400	0.103	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Iron, Total	0.623	J	mg/kg	2.00	0.361	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Lead, Total	ND		mg/kg	2.00	0.107	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Magnesium, Total	ND		mg/kg	4.00	0.616	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Manganese, Total	ND		mg/kg	0.400	0.064	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Potassium, Total	ND		mg/kg	100	5.76	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Silver, Total	ND		mg/kg	0.200	0.113	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Sodium, Total	1.29	J	mg/kg	80.0	1.26	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Thallium, Total	ND		mg/kg	0.800	0.126	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Vanadium, Total	ND		mg/kg	0.400	0.081	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/14/24 22:56	08/15/24 10:18	1,6010D	DHL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1959240-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	08/14/24 23:55	08/15/24 08:07	1,7471B	JWN

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 12-13 Batch: WG1959367-1										
Aluminum, Total	ND		ug/l	10.0	3.27	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Antimony, Total	ND		ug/l	4.000	0.4290	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Arsenic, Total	ND		ug/l	0.5000	0.1650	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Barium, Total	ND		ug/l	0.5000	0.1730	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Beryllium, Total	ND		ug/l	0.5000	0.1070	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Calcium, Total	ND		ug/l	100	39.4	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Chromium, Total	ND		ug/l	1.000	0.1780	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Cobalt, Total	ND		ug/l	0.5000	0.1630	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Copper, Total	ND		ug/l	1.000	0.3840	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Iron, Total	ND		ug/l	50.0	19.1	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Lead, Total	ND		ug/l	1.000	0.3430	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Magnesium, Total	ND		ug/l	70.0	24.2	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Manganese, Total	ND		ug/l	1.000	0.4400	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Nickel, Total	ND		ug/l	2.000	0.5560	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Potassium, Total	ND		ug/l	100	30.9	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Selenium, Total	ND		ug/l	5.00	1.73	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Silver, Total	ND		ug/l	0.4000	0.1630	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Sodium, Total	ND		ug/l	100	29.3	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Thallium, Total	ND		ug/l	1.000	0.1430	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Vanadium, Total	ND		ug/l	5.000	1.570	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF
Zinc, Total	ND		ug/l	10.00	3.410	1	08/14/24 22:30	08/16/24 07:44	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 12-13 Batch: WG1959372-1										
Mercury, Total	ND		ug/l	0.2000	0.0915	1	08/14/24 22:41	08/15/24 12:31	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2445674

Report Date: 08/16/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1959238-2								
Aluminum, Total	101		-		80-120	-		
Antimony, Total	105		-		80-120	-		
Arsenic, Total	100		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	104		-		80-120	-		
Cadmium, Total	104		-		80-120	-		
Calcium, Total	103		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Cobalt, Total	103		-		80-120	-		
Copper, Total	104		-		80-120	-		
Iron, Total	106		-		80-120	-		
Lead, Total	100		-		80-120	-		
Magnesium, Total	101		-		80-120	-		
Manganese, Total	102		-		80-120	-		
Nickel, Total	101		-		80-120	-		
Potassium, Total	104		-		80-120	-		
Selenium, Total	103		-		80-120	-		
Silver, Total	105		-		80-120	-		
Sodium, Total	104		-		80-120	-		
Thallium, Total	103		-		80-120	-		
Vanadium, Total	102		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2445674

Report Date: 08/16/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1959238-2					
Zinc, Total	102	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1959240-2					
Mercury, Total	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2445674

Report Date: 08/16/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12-13 Batch: WG1959367-2					
Aluminum, Total	97	-	80-120	-	
Antimony, Total	84	-	80-120	-	
Arsenic, Total	105	-	80-120	-	
Barium, Total	98	-	80-120	-	
Beryllium, Total	102	-	80-120	-	
Cadmium, Total	101	-	80-120	-	
Calcium, Total	95	-	80-120	-	
Chromium, Total	115	-	80-120	-	
Cobalt, Total	113	-	80-120	-	
Copper, Total	111	-	80-120	-	
Iron, Total	118	-	80-120	-	
Lead, Total	102	-	80-120	-	
Magnesium, Total	105	-	80-120	-	
Manganese, Total	116	-	80-120	-	
Nickel, Total	114	-	80-120	-	
Potassium, Total	110	-	80-120	-	
Selenium, Total	103	-	80-120	-	
Silver, Total	110	-	80-120	-	
Sodium, Total	97	-	80-120	-	
Thallium, Total	106	-	80-120	-	
Vanadium, Total	110	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2445674

Report Date: 08/16/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12-13 Batch: WG1959367-2					
Zinc, Total	104	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 12-13 Batch: WG1959372-2					
Mercury, Total	104	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1959238-3 QC Sample: L2445543-14 Client ID: MS Sample												
Aluminum, Total	6530	196	6660	**66**	Q	-	-		75-125	-		20
Antimony, Total	ND	49	44.9	92		-	-		75-125	-		20
Arsenic, Total	2.69	11.8	13.7	94		-	-		75-125	-		20
Barium, Total	32.6	196	211	91		-	-		75-125	-		20
Beryllium, Total	0.349J	4.9	5.13	105		-	-		75-125	-		20
Cadmium, Total	28.1	5.2	21.9	**0**	Q	-	-		75-125	-		20
Calcium, Total	4120	980	4530	**42**	Q	-	-		75-125	-		20
Chromium, Total	102	19.6	81.9	**0**	Q	-	-		75-125	-		20
Cobalt, Total	29.1	49	69.0	81		-	-		75-125	-		20
Copper, Total	137	24.5	119	**0**	Q	-	-		75-125	-		20
Iron, Total	13800	98	14000	**204**	Q	-	-		75-125	-		20
Lead, Total	40.6	52	78.8	**74**	Q	-	-		75-125	-		20
Magnesium, Total	2710	980	3390	**69**	Q	-	-		75-125	-		20
Manganese, Total	331	49	378	96		-	-		75-125	-		20
Nickel, Total	93.4	49	100	**13**	Q	-	-		75-125	-		20
Potassium, Total	305	980	1190	90		-	-		75-125	-		20
Selenium, Total	3.06	11.8	14.3	96		-	-		75-125	-		20
Silver, Total	3.24	4.9	7.21	81		-	-		75-125	-		20
Sodium, Total	279	980	1230	97		-	-		75-125	-		20
Thallium, Total	0.492J	11.8	11.1	94		-	-		75-125	-		20
Vanadium, Total	25.5	49	77.1	105		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1959238-3 QC Sample: L2445543-14 Client ID: MS Sample										
Zinc, Total	111	49	125	**28**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1959240-3 QC Sample: L2445674-01 Client ID: DEP51-S3-240813										
Mercury, Total	0.089	1.5	1.53	96		-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12-13 QC Batch ID: WG1959367-3 QC Sample: L2445642-01 Client ID: MS Sample									
Aluminum, Total	64.2	2000	2100	102	-	-	75-125	-	20
Antimony, Total	1.753J	500	497.5	100	-	-	75-125	-	20
Arsenic, Total	2.093	120	133.2	109	-	-	75-125	-	20
Barium, Total	114.4	2000	2149	102	-	-	75-125	-	20
Beryllium, Total	ND	50	52.37	105	-	-	75-125	-	20
Cadmium, Total	0.1884J	53	55.26	104	-	-	75-125	-	20
Calcium, Total	8940	10000	18300	94	-	-	75-125	-	20
Chromium, Total	14.46	200	244.3	115	-	-	75-125	-	20
Cobalt, Total	3.631	500	578.5	115	-	-	75-125	-	20
Copper, Total	90.24	250	374.7	114	-	-	75-125	-	20
Iron, Total	6640	1000	7720	108	-	-	75-125	-	20
Lead, Total	11.33	530	576.9	107	-	-	75-125	-	20
Magnesium, Total	2980	10000	14200	112	-	-	75-125	-	20
Manganese, Total	668.0	500	1292	125	-	-	75-125	-	20
Nickel, Total	40.21	500	612.4	114	-	-	75-125	-	20
Potassium, Total	14300	10000	26700	124	-	-	75-125	-	20
Selenium, Total	ND	120	122	102	-	-	75-125	-	20
Silver, Total	ND	50	56.10	112	-	-	75-125	-	20
Sodium, Total	6880	10000	18200	113	-	-	75-125	-	20
Thallium, Total	ND	120	134.1	112	-	-	75-125	-	20
Vanadium, Total	2.160J	500	558.6	112	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12-13 QC Batch ID: WG1959367-3 QC Sample: L2445642-01 Client ID: MS Sample									
Zinc, Total	187.3	500	738.2	110	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 12-13 QC Batch ID: WG1959372-3 QC Sample: L2445674-12 Client ID: DEP51-W5-240813									
Mercury, Total	ND	5	4.907	98	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1959238-4 QC Sample: L2445543-14 Client ID: DUP Sample						
Cobalt, Total	29.1	26.2	mg/kg	10		20
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1959240-4 QC Sample: L2445674-01 Client ID: DEP51-S3-240813						
Mercury, Total	0.089	0.074J	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 12-13 QC Batch ID: WG1959367-4 QC Sample: L2445642-01 Client ID: DUP Sample						
Iron, Total	6640	6470	ug/l	3		20
Lead, Total	11.33	11.12	ug/l	2		20
Nickel, Total	40.21	39.88	ug/l	1		20
Zinc, Total	187.3	187.0	ug/l	0		20
Total Metals - Mansfield Lab Associated sample(s): 12-13 QC Batch ID: WG1959372-4 QC Sample: L2445674-12 Client ID: DEP51-W5-240813						
Mercury, Total	ND	0.1040J	ug/l	NC		20

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 12-13 QC Batch ID: WG1959367-6 QC Sample: L2445642-01 Client ID: DUP Sample						
Iron, Total	6640	6520	ug/l	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-01
Client ID: DEP51-S3-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 10:45
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	4.27		mg/kg	0.908	0.182	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-02
Client ID: DEP51-S5-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 11:10
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.0		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	7.06		mg/kg	1.00	0.200	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-03
Client ID: DEP51-S6-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 11:20
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	5.04		mg/kg	0.894	0.179	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-04
Client ID: DEP51-S8A-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 11:30
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.0		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	7.30		mg/kg	1.25	0.250	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-05
Client ID: DEP51-S10A-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 11:35
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.9		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.11	0.222	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-06
Client ID: DEP51-S12-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 10:51
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.4		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.09	0.218	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-07
Client ID: DEP51-S13-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 11:05
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.6		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	18.8		mg/kg	0.820	0.164	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-08
Client ID: DEP51-S14-240813
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 08/13/24 11:45
Date Received: 08/13/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.9		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	1.13	J	mg/kg	1.29	0.258	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-09
Client ID: DEP51-S15-240813
Sample Location: PHILA, PA
Sample Depth:
Matrix: Soil

Date Collected: 08/13/24 11:55
Date Received: 08/13/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.8		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.13	0.226	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-10
Client ID: DEP51-S7-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 11:25
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.4		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	0.466	J	mg/kg	1.01	0.202	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-11
Client ID: DUP-S 240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 00:00
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.2		%	0.100	NA	1	-	08/14/24 08:25	121,2540G	ROI
Chromium, Hexavalent	ND		mg/kg	1.08	0.216	1	08/14/24 13:12	08/15/24 15:44	1,7196A	RDS

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-12
Client ID: DEP51-W5-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 12:30
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	19600		ug/l	500	150.	50	08/14/24 09:00	08/14/24 09:25	1,7196A	JBB

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

SAMPLE RESULTS

Lab ID: L2445674-13
Client ID: DEP51-W6-240813
Sample Location: PHILA, PA

Date Collected: 08/13/24 12:55
Date Received: 08/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	28000		ug/l	1000	300.	100	08/14/24 09:00	08/14/24 09:26	1,7196A	JBB

Project Name: ALLIANCE 51ST
Project Number: 30108678
Lab Number: L2445674
Report Date: 08/16/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 12-13 Batch: WG1959146-1										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	08/14/24 09:00	08/14/24 09:21	1,7196A	JBB
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1959251-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/14/24 13:12	08/15/24 15:44	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1959316-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/14/24 14:45	08/15/24 13:10	1,7196A	RDS

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST

Project Number: 30108678

Lab Number: L2445674

Report Date: 08/16/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 12-13 Batch: WG1959146-2								
Chromium, Hexavalent	97		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1959251-2								
Chromium, Hexavalent	82		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1959316-2								
Chromium, Hexavalent	86		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 12-13 QC Batch ID: WG1959146-4 QC Sample: L2445674-13 Client ID: DEP51-W6-240813												
Chromium, Hexavalent	28000	100000	37200	92		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1959251-4 QC Sample: L2445674-11 Client ID: DUP-S 240813												
Chromium, Hexavalent	ND	1490	1140	77		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1959316-4 QC Sample: L2445674-01 Client ID: DEP51-S3-240813												
Chromium, Hexavalent	4.27	1300	1100	84		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1959075-1 QC Sample: L2445674-01 Client ID: DEP51-S3-240813						
Solids, Total	88.1	88.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 12-13 QC Batch ID: WG1959146-3 QC Sample: L2445674-12 Client ID: DEP51-W5-240813						
Chromium, Hexavalent	19600	19700	ug/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1959251-6 QC Sample: L2445674-11 Client ID: DUP-S 240813						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1959316-6 QC Sample: L2445674-01 Client ID: DEP51-S3-240813						
Chromium, Hexavalent	4.27	5.53	mg/kg	**26**	Q	20

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2445674-01A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),NA-TI(180),K-TI(180),CD-TI(180),CA-TI(180)
L2445674-01B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2445674-02B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2445674-03B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2445674-04B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2445674-05B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2445674-06A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2445674-06B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-07A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2445674-07B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2445674-08B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2445674-09B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2445674-10B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)
L2445674-11A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2445674-11B	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST
Project Number: 30108678

Lab Number: L2445674
Report Date: 08/16/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2445674-12A	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		AL-6020T-PPB(180),CO-6020T-PPB(180),SB-6020T-PPB(180),BE-6020T-PPB(180),CR-6020T-PPB(180),CD-6020T-PPB(180),HG-T-PPB(28),CA-6020T-PPB(180),CU-6020T-PPB(180),TL-6020T-PPB(180),BA-6020T-PPB(180),K-6020T-PPB(180),AG-6020T-PPB(180),PB-6020T-PPB(180),AS-6020T-PPB(180),FE-6020T-PPB(180),NI-6020T-PPB(180),NA-6020T-PPB(180),MG-6020T-PPB(180),ZN-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180)
L2445674-12B	Plastic 250ml unpreserved	A	7	7	2.2	Y	Absent		HEXCR-7196-PPB(1)
L2445674-13A	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		CO-6020T-PPB(180),AL-6020T-PPB(180),CD-6020T-PPB(180),SB-6020T-PPB(180),BE-6020T-PPB(180),CR-6020T-PPB(180),HG-T-PPB(28),CU-6020T-PPB(180),CA-6020T-PPB(180),TL-6020T-PPB(180),BA-6020T-PPB(180),AG-6020T-PPB(180),K-6020T-PPB(180),AS-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),NI-6020T-PPB(180),MG-6020T-PPB(180),ZN-6020T-PPB(180),V-6020T-PPB(180),SE-6020T-PPB(180),MN-6020T-PPB(180)
L2445674-13B	Plastic 250ml unpreserved	A	7	7	2.2	Y	Absent		HEXCR-7196-PPB(1)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2445674
Project Number:	30108678	**Report Date:**	08/16/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2445674
Project Number:	30108678	**Report Date:**	08/16/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2445674
Project Number:	30108678	**Report Date:**	08/16/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ALLIANCE 51ST	**Lab Number:**	L2445674
Project Number:	30108678	**Report Date:**	08/16/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 8/14/2024

ALPHA Job #: L2445674

Client Information

Client: Arcadis
Address: 1 Hartrand Way Ste 5
Hillsborough, NJ
Phone: 908-526-1111
Fax:
Email: Larry.Blunt@arcadis.com

Project Information

Project Name: Allstate 51st St
Project Location: Phila, PA
Project #: 30106478
(Use Project name as Project #)
Project Manager: Larry Blunt
ALPHAQuote #:

Turn-Around Time

Standard
Rush (only if pre approved)
Due Date:
# of Days: 3 Day

Deliverables

- NJ Full / Reduced
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Billing Information

- Same as Client Info

PO #

Regulatory Requirement

- SRS Residential/Non Residential
- SRS Impact to Groundwater
- NJ Ground Water Quality Standards
- NJ IGW SPLP Leachate Criteria
- Other

Site Information

Is this site impacted by Petroleum? Yes

Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
- Category 1
- Category 2

For VOC, selection is REQUIRED:
- 1,4-Dioxane
- 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

TCL VOC
TAL metals

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	TAL metals	Sample Specific Comments	Total Bottle
45674-01	DEPA1-S3-240617	8/8/24	1040	SE	MH	X	X		2
-02	DEPA1-S5-240617		1110			X	X		
-03	DEPA1-S6-240617		1120			X	X		
-04	DEPA1-S8A-240617		1130			X	X		
-05	DEPA1-S10A-240617		1135			X	X		
-06	DEPA1-S12-240617		1041			X	X		
-07	DEPA1-S13-240617		1105			X	X		
-08	DEPA1-S14-240617		1145			X	X		
-09	DEPA1-S15-240617		1155			X	X		
-10	DEPA1-S7-240617		1125			X	X		

Container Type: A A
Preservative: A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Hilliard	8/13/24 1800	[illegible]	8/13/24 1345
[illegible]	8/13/24 1500	[illegible]	8-13-24 1500
[illegible]	8-13-24, 1800	M.S.M (AN)	8/13 1900
			8/13 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

8/14 0140

8/14/2024

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 8/14/2024

ALPHA Job # L2445674

Client Information

Client: Arcadis
Address: 1 Harmed Way Ste 5
Mt Laurel NJ
Phone: 856-524-1200
Fax:
Email: Larry.Grant@arcadis.com

Project Information

Project Name: Allsopp St CT
Project Location: Phila PA
Project #: 30106678
(Use Project name as Project #)
Project Manager: Larry Grant
ALPHAQuote #:

Turn-Around Time

Standard
Rush (only if pre approved) ☒ Due Date:
# of Days: 3 day

Deliverables

NJ Full / Reduced
EQuIS (1 File) EQuIS (4 File)
Other

Regulatory Requirement

SRS Residential/Non Residential
SRS Impact to Groundwater
NJ Ground Water Quality Standards
NJ IGW SPLP Leachate Criteria
Other

Billing Information

Same as Client Info
PO #

Site Information

Is this site impacted by Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:
Category 1
Category 2

For VOC, selection is REQUIRED:
1,4-Dioxane
8011

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

WPR CC TAL Metals | WPR CC TAL Metals

Sample Filtration
Done 0.45 in lab
Lab to do
Preservation
Lab to do
(Please Specify below)

Sample Specific Comments

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	WPR CC	TAL Metals	WPR CC	TAL Metals	Total Bottle
45674-11	[redacted] BH-5 240813	8/13/24	X	Soil	MH	X	X			
-12	[redacted] WS 240813		1230	AQ				X	X	
-13	[redacted] MW-240813		1255					X	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	P	P				
Preservative	A	A	A	C				

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Millsaps	8/13/24 1345	[redacted] FACT	8/13/24 1345
[redacted] (SAMPLES)	8/13/24 1500	[redacted] ALPHA	8/13/24 1520
[redacted]	8/13/24 1852	[redacted]	8/13 2300
		8/14 140	8/14 0140

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2468822
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678.07
Report Date:	12/11/24

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2468822-01	MW-7	WATER	PHILADELPHIA, PA	11/21/24 10:05	11/21/24
L2468822-02	MW-8	WATER	PHILADELPHIA, PA	11/21/24 12:00	11/21/24
L2468822-03	MW-5	WATER	PHILADELPHIA, PA	11/21/24 11:10	11/21/24
L2468822-04	MW-1	WATER	PHILADELPHIA, PA	11/21/24 12:20	11/21/24
L2468822-05	MW-4	WATER	PHILADELPHIA, PA	11/21/24 13:05	11/21/24
L2468822-06	MW-9	WATER	PHILADELPHIA, PA	11/21/24 15:05	11/21/24
L2468822-07	MW-2	WATER	PHILADELPHIA, PA	11/21/24 13:30	11/21/24
L2468822-08	MW-3	WATER	PHILADELPHIA, PA	11/21/24 14:25	11/21/24
L2468822-09	FIELD BLANK-20241121	WATER	PHILADELPHIA, PA	11/21/24 13:00	11/21/24
L2468822-10	DUP-01	WATER	PHILADELPHIA, PA	11/21/24 00:00	11/21/24

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2468822
Project Number:	30108678.07	**Report Date:**	12/11/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2468822
Project Number:	30108678.07	**Report Date:**	12/11/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The analyses performed were specified by the client.

L2468822-10: A sample identified as "DUP-01" was received, but not listed on the chain of custody. At the client's request, this sample was analyzed.

Total Metals

L2468822-10: The sample has an elevated detection limit due to the dilution required by the sample matrix.

Dissolved Metals

L2468822-01, -05, and -10: The sample has an elevated detection limit due to the dilution required by the sample matrix.

Chromium, Hexavalent (Unfiltered)

L2468822-03: The sample has an elevated detection limit due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 12/11/24

METALS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-01
Client ID: MW-7
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 11/21/24 10:05
Date Received: 11/21/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	20930		ug/l	100.0	17.80	100	11/29/24 13:31	12/04/24 19:34	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	19680		ug/l	50.00	8.900	50	11/29/24 18:10	12/05/24 11:45	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-02
Client ID: MW-8
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 11/21/24 12:00
Date Received: 11/21/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	222.3		ug/l	1.000	0.1780	1	11/29/24 13:31	12/04/24 18:51	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	10.18		ug/l	1.000	0.1780	1	11/29/24 18:10	12/05/24 11:50	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-03
Client ID: MW-5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 11/21/24 11:10
Date Received: 11/21/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1.322		ug/l	1.000	0.1780	1	11/29/24 13:31	12/04/24 18:56	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	0.3532	J	ug/l	1.000	0.1780	1	11/29/24 18:10	12/05/24 11:54	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-04
Client ID: MW-1
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 11/21/24 12:20
Date Received: 11/21/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	5.569		ug/l	1.000	0.1780	1	11/29/24 13:31	12/04/24 18:25	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	2.390		ug/l	1.000	0.1780	1	11/29/24 18:10	12/05/24 11:59	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-05
Client ID: MW-4
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 11/21/24 13:05
Date Received: 11/21/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	19060		ug/l	100.0	17.80	100	11/29/24 13:31	12/04/24 19:00	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	18300		ug/l	100.0	17.80	100	11/29/24 18:10	12/05/24 12:47	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-06
Client ID: MW-9
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 11/21/24 15:05
Date Received: 11/21/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	7099.		ug/l	10.00	1.780	10	11/29/24 13:31	12/04/24 19:05	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	463.2		ug/l	1.000	0.1780	1	11/29/24 18:10	12/05/24 12:08	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-07
Client ID: MW-2
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 11/21/24 13:30
Date Received: 11/21/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	36.38		ug/l	1.000	0.1780	1	11/29/24 13:31	12/04/24 18:38	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	9.447		ug/l	1.000	0.1780	1	11/29/24 18:10	12/05/24 12:38	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-08
Client ID: MW-3
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 11/21/24 14:25
Date Received: 11/21/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	1029.		ug/l	10.00	1.780	10	11/29/24 13:31	12/04/24 18:42	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	246.9		ug/l	1.000	0.1780	1	11/29/24 18:10	12/05/24 12:43	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-09
Client ID: FIELD BLANK-20241121
Sample Location: PHILADELPHIA, PA
Date Collected: 11/21/24 13:00
Date Received: 11/21/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	ND		ug/l	1.000	0.1780	1	11/29/24 13:31	12/04/24 19:29	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-10
Client ID: DUP-01
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 11/21/24 00:00
Date Received: 11/21/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	22460		ug/l	50.00	8.900	50	12/06/24 12:22	12/10/24 12:42	EPA 3005A	1,6020B	NTB
Dissolved Metals - Mansfield Lab											
Chromium, Dissolved	21650		ug/l	100.0	17.80	100	11/29/24 18:10	12/05/24 17:28	EPA 3005A	1,6020B	NTB

Project Name: ALLIANCE 51ST STREET **Lab Number:** L2468822

Project Number: 30108678.07 **Report Date:** 12/11/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-08,10 Batch: WG2003141-1										
Chromium, Dissolved	0.2027	J	ug/l	1.000	0.1780	1	11/29/24 18:10	12/05/24 11:36	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-09 Batch: WG2003155-1										
Chromium, Total	ND		ug/l	1.000	0.1780	1	11/29/24 13:31	12/04/24 16:23	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 10 Batch: WG2006106-1										
Chromium, Total	ND		ug/l	1.000	0.1780	1	12/06/24 12:22	12/09/24 08:02	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08,10 Batch: WG2003141-2								
Chromium, Dissolved	103		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG2003155-2								
Chromium, Total	97		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG2006106-2								
Chromium, Total	107		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08,10 QC Batch ID: WG2003141-3 QC Sample: L2468833-01 Client ID: MS Sample												
Chromium, Dissolved	3.683	200	239.6	118		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG2003155-3 QC Sample: L2468678-01 Client ID: MS Sample												
Chromium, Total	95.17	200	292.8	99		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG2006106-3 QC Sample: L2470404-03 Client ID: MS Sample												
Chromium, Total	0.6856J	200	200.2	100		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678.07

Lab Number: L2468822

Report Date: 12/11/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG2003155-4 QC Sample: L2468678-01 Client ID: DUP Sample						
Chromium, Total	95.17	93.89	ug/l	1		20

INORGANICS
&
MISCELLANEOUS

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-01
Client ID: MW-7
Sample Location: PHILADELPHIA, PA

Date Collected: 11/21/24 10:05
Date Received: 11/21/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	18.4		mg/l	1.00	0.300	100	11/22/24 09:30	11/22/24 09:54	1,7196A	KEM
Chromium, Hexavalent	18800		ug/l	1000	300.	100	11/22/24 08:30	11/22/24 09:11	1,7196A	KEM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-02
Client ID: MW-8
Sample Location: PHILADELPHIA, PA

Date Collected: 11/21/24 12:00
Date Received: 11/21/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	ND		mg/l	0.010	0.003	1	11/22/24 09:30	11/22/24 09:54	1,7196A	KEM
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	11/22/24 08:30	11/22/24 09:12	1,7196A	KEM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-03
Client ID: MW-5
Sample Location: PHILADELPHIA, PA

Date Collected: 11/21/24 11:10
Date Received: 11/21/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	ND		mg/l	0.050	0.015	5	11/22/24 09:30	11/22/24 09:56	1,7196A	KEM
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	11/22/24 08:30	11/22/24 09:12	1,7196A	KEM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-04
Client ID: MW-1
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water
Date Collected: 11/21/24 12:20
Date Received: 11/21/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	ND		mg/l	0.010	0.003	1	11/22/24 09:30	11/22/24 10:15	1,7196A	KEM
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	11/22/24 08:30	11/22/24 09:13	1,7196A	KEM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-05
Client ID: MW-4
Sample Location: PHILADELPHIA, PA

Date Collected: 11/21/24 13:05
Date Received: 11/21/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	17.4		mg/l	1.00	0.300	100	11/22/24 09:30	11/22/24 10:15	1,7196A	KEM
Chromium, Hexavalent	17800		ug/l	1000	300.	100	11/22/24 08:30	11/22/24 09:14	1,7196A	KEM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-06
Client ID: MW-9
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water
Date Collected: 11/21/24 15:05
Date Received: 11/21/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	0.322		mg/l	0.010	0.003	1	11/22/24 09:30	11/22/24 10:16	1,7196A	KEM
Chromium, Hexavalent	301.		ug/l	10.0	3.00	1	11/22/24 08:30	11/22/24 09:15	1,7196A	KEM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-07
Client ID: MW-2
Sample Location: PHILADELPHIA, PA

Date Collected: 11/21/24 13:30
Date Received: 11/21/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	ND		mg/l	0.010	0.003	1	11/22/24 09:30	11/22/24 10:17	1,7196A	KEM
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	11/22/24 08:30	11/22/24 09:16	1,7196A	KEM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-08
Client ID: MW-3
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Water

Date Collected: 11/21/24 14:25
Date Received: 11/21/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	0.017		mg/l	0.010	0.003	1	11/22/24 09:30	11/22/24 10:18	1,7196A	KEM
Chromium, Hexavalent	6.00	J	ug/l	10.0	3.00	1	11/22/24 08:30	11/22/24 09:16	1,7196A	KEM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-09
Client ID: FIELD BLANK-20241121
Sample Location: PHILADELPHIA, PA

Date Collected: 11/21/24 13:00
Date Received: 11/21/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	11/22/24 08:30	11/22/24 09:17	1,7196A	KEM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

SAMPLE RESULTS

Lab ID: L2468822-10
Client ID: DUP-01
Sample Location: PHILADELPHIA, PA

Date Collected: 11/21/24 00:00
Date Received: 11/21/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Hexavalent (Unfiltered)	20.8		mg/l	1.00	0.300	100	11/22/24 09:30	11/22/24 10:18	1,7196A	KEM
Chromium, Hexavalent	19300		ug/l	1000	300.	100	11/22/24 08:30	11/22/24 09:17	1,7196A	KEM

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG2000881-1										
Chromium, Hexavalent	ND		ug/l	10.0	3.00	1	11/22/24 08:30	11/22/24 09:11	1,7196A	KEM
General Chemistry - Westborough Lab for sample(s): 01-08,10 Batch: WG2000882-1										
Chromium, Hexavalent (Unfiltered)	ND		mg/l	0.010	0.003	1	11/22/24 09:30	11/22/24 09:50	1,7196A	KEM

Lab Control Sample Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG2000881-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10 Batch: WG2000882-2								
Chromium, Hexavalent (Unfiltered)	98		-		85-115	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2000881-4 QC Sample: L2468822-03 Client ID: MW-5												
Chromium, Hexavalent	ND	100	103	103		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10 QC Batch ID: WG2000882-4 QC Sample: L2468822-03 Client ID: MW-5												
Chromium, Hexavalent (Unfiltered)	ND	0.5	0.438	88		-	-		85-115	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2000881-3 QC Sample: L2468822-03 Client ID: MW-5						
Chromium, Hexavalent	ND	ND	ug/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10 QC Batch ID: WG2000882-3 QC Sample: L2468822-03 Client ID: MW-5						
Chromium, Hexavalent (Unfiltered)	ND	ND	mg/l	NC		20

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2468822-01A	Plastic 250ml unpreserved	A	11	11	2.7	Y	Absent		HEXCR-7196-PPB(1)
L2468822-01B	Plastic 250ml unpreserved	A	11	11	2.7	Y	Absent		HEXCR-7196-UF(1)
L2468822-01C	Plastic 250ml unpreserved	A	11	11	2.7	Y	Absent		-
L2468822-01D	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		CR-6020S-PPB(180)
L2468822-01E	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		CR-6020T-PPB(180)
L2468822-01X	Plastic 120ml HNO3 preserved Filtrates	A	N/A	N/A	2.7	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2468822-02A	Plastic 250ml unpreserved	A	7	7	2.7	Y	Absent		HEXCR-7196-PPB(1)
L2468822-02B	Plastic 250ml unpreserved	A	7	7	2.7	Y	Absent		HEXCR-7196-UF(1)
L2468822-02C	Plastic 250ml unpreserved	A	7	7	2.7	Y	Absent		-
L2468822-02D	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		CR-6020S-PPB(180)
L2468822-02E	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		CR-6020T-PPB(180)
L2468822-02X	Plastic 120ml HNO3 preserved Filtrates	A	N/A	N/A	2.7	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2468822-03A	Plastic 250ml unpreserved	B	7	7	3.7	Y	Absent		HEXCR-7196-PPB(1)
L2468822-03B	Plastic 250ml unpreserved	B	7	7	3.7	Y	Absent		HEXCR-7196-UF(1)
L2468822-03C	Plastic 250ml unpreserved	B	7	7	3.7	Y	Absent		-
L2468822-03D	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		CR-6020S-PPB(180)
L2468822-03E	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		CR-6020T-PPB(180)
L2468822-03X	Plastic 120ml HNO3 preserved Filtrates	B	N/A	N/A	3.7	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2468822-04A	Plastic 250ml unpreserved	B	7	7	3.7	Y	Absent		HEXCR-7196-PPB(1)
L2468822-04B	Plastic 250ml unpreserved	B	7	7	3.7	Y	Absent		HEXCR-7196-UF(1)
L2468822-04C	Plastic 250ml unpreserved	B	7	7	3.7	Y	Absent		-
L2468822-04D	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		CR-6020S-PPB(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2468822-04E	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		CR-6020T-PPB(180)
L2468822-04X	Plastic 120ml HNO3 preserved Filtrates	B	N/A	N/A	3.7	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2468822-05A	Plastic 250ml unpreserved	A	12	12	2.7	Y	Absent		HEXCR-7196-PPB(1)
L2468822-05B	Plastic 250ml unpreserved	A	12	12	2.7	Y	Absent		HEXCR-7196-UF(1)
L2468822-05C	Plastic 250ml unpreserved	A	12	12	2.7	Y	Absent		-
L2468822-05D	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		CR-6020S-PPB(180)
L2468822-05E	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		CR-6020T-PPB(180)
L2468822-05X	Plastic 120ml HNO3 preserved Filtrates	A	N/A	N/A	2.7	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2468822-06A	Plastic 250ml unpreserved	B	12	12	3.7	Y	Absent		HEXCR-7196-PPB(1)
L2468822-06B	Plastic 250ml unpreserved	B	12	12	3.7	Y	Absent		HEXCR-7196-UF(1)
L2468822-06C	Plastic 250ml unpreserved	B	12	12	3.7	Y	Absent		-
L2468822-06D	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		CR-6020S-PPB(180)
L2468822-06E	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		CR-6020T-PPB(180)
L2468822-06X	Plastic 120ml HNO3 preserved Filtrates	B	N/A	N/A	3.7	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2468822-07A	Plastic 250ml unpreserved	B	7	7	3.7	Y	Absent		HEXCR-7196-PPB(1)
L2468822-07B	Plastic 250ml unpreserved	B	7	7	3.7	Y	Absent		HEXCR-7196-UF(1)
L2468822-07C	Plastic 250ml unpreserved	B	7	7	3.7	Y	Absent		-
L2468822-07D	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		CR-6020S-PPB(180)
L2468822-07E	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		CR-6020T-PPB(180)
L2468822-07X	Plastic 120ml HNO3 preserved Filtrates	B	N/A	N/A	3.7	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2468822-08A	Plastic 250ml unpreserved	A	7	7	2.7	Y	Absent		HEXCR-7196-PPB(1)
L2468822-08B	Plastic 250ml unpreserved	A	7	7	2.7	Y	Absent		HEXCR-7196-UF(1)
L2468822-08C	Plastic 250ml unpreserved	A	7	7	2.7	Y	Absent		-
L2468822-08D	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		CR-6020S-PPB(180)
L2468822-08E	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		CR-6020T-PPB(180)
L2468822-08X	Plastic 120ml HNO3 preserved Filtrates	A	N/A	N/A	2.7	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2468822-09A	Plastic 250ml unpreserved	B	7	7	3.7	Y	Absent		HEXCR-7196-PPB(1)
L2468822-09B	Plastic 250ml HNO3 preserved	B	<2	<2	3.7	Y	Absent		CR-6020T-PPB(180)

*Values in parentheses indicate holding time in days

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07

Lab Number: L2468822
Report Date: 12/11/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2468822-10A	Plastic 250ml unpreserved	A	11	11	2.7	Y	Absent		HEXCR-7196-PPB(1)
L2468822-10B	Plastic 250ml unpreserved	A	11	11	2.7	Y	Absent		HEXCR-7196-UF(1)
L2468822-10C	Plastic 250ml unpreserved	A	11	11	2.7	Y	Absent		-
L2468822-10D	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		-
L2468822-10E	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		CR-6020T-PPB(180),HOLD-METAL-TOTAL(180)
L2468822-10X	Plastic 120ml HNO3 preserved Filtrates	A	N/A	N/A	2.7	Y	Absent		HOLD-METAL-DISSOLVED(180),CR-6020S-PPB(180)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2468822
Project Number:	30108678.07	**Report Date:**	12/11/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678.07
Lab Number: L2468822
Report Date: 12/11/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 11/22/24

ALPHA Job #: L2468822

Client Information
Client: Arcadis US Inc
Address: 1 Harvard Way Suite 5
Hillsborough NJ 08844
Phone: 908-526-1000
Fax:
Email: larry.brunt@arcadis.com

Project Information
Project Name: Alliance Sist Street
Project Location: Philadelphia, PA
Project # 30108678.07
(Use Project name as Project #)
Project Manager: Larry Brunt
ALPHAQuote #:

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
[ ] NJ Full / Reduced
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Billing Information
[ ] Same as Client Info
PO #

Regulatory Requirement
[ ] SRS Residential/Non Residential
[ ] SRS Impact to Groundwater
[ ] NJ Ground Water Quality Standards
[ ] NJ IGW SPLP Leachate Criteria
[ ] Other

Site Information
Is this site impacted by Petroleum? Yes [ ]
Petroleum Product:

These samples have been previously analyzed by Alpha [ ]

For EPH, selection is REQUIRED:
[ ] Category 1
[ ] Category 2

For VOC, selection is REQUIRED:
[ ] 1,4-Dioxane
[ ] 8011

Other project specific requirements/comments:
Please specify Metals or TAL.

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Hex Cr Unfiltered	Dissolved metals lab filtered	Hex Cr	Dissolved metals field filtered	Total metals				Sample Specific Comments	Total Bottle
L8822-01	MW-7	11/21/24	1005	GW	TD	X	X	X	X	X					5
02	MW-8		1200		TD	X	X	X	X	X					5
03	MW-5		1110		RM	X	X	X	X	X					5
04	MW-1		1220		RM	X	X	X	X	X					5
05	~~MW-9~~ MW-4		1305		TD	X	X	X	X	X					5
06	MW-9		1505		TD	X	X	X	X	X					5
07	MW-2		1330		RM	X	X	X	X	X					5
08	MW-3		1425		RM	X	X	X	X	X					5
09	FieldBlank-20241121		1300		RM	X	X	X	X	X					5

Container Type: P P P P P
Preservative: A A A C C

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Raymond Miller	11/21/2024 15:43	William Dodson Pace	11/21/24 15:43
William Dodson PACE	11/21/2024 18:44		11/21 18:29
	11/21	Anthony Green	NOV 21 2024 2250
Anthony Green	11/22/24 0200		11/22/24 0200
	11/22/24 0400	Julio	11/22/24 0400

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

Soil Gas

ANALYTICAL REPORT

Lab Number:	L2227668
Client:	Arcadis U.S., Inc 1 Harvard Way Suite 5 Hillsborough, NJ 08844
ATTN:	Larry Brunt
Phone:	(908) 526-1000
Project Name:	ALLIANCE 51ST STREET
Project Number:	30108678
Report Date:	06/17/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2227668-01	SG-1	SOIL_VAPOR	PHILA, PA	05/25/22 07:38	05/25/22
L2227668-02	SG-2	SOIL_VAPOR	PHILA, PA	05/25/22 08:03	05/25/22
L2227668-03	SG-3	SOIL_VAPOR	PHILA, PA	05/25/22 08:54	05/25/22
L2227668-04	SG-4	SOIL_VAPOR	PHILA, PA	05/25/22 09:21	05/25/22
L2227668-05	SG-5	SOIL_VAPOR	PHILA, PA	05/25/22 10:06	05/25/22
L2227668-06	SG-6	SOIL_VAPOR	PHILA, PA	05/25/22 10:38	05/25/22
L2227668-07	SG-7	SOIL_VAPOR	PHILA, PA	05/25/22 11:10	05/25/22

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2227668
Project Number:	30108678	**Report Date:**	06/17/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2227668
Project Number:	30108678	**Report Date:**	06/17/22

Case Narrative (continued)

Report Revision

June 17, 2022 the report has been amended to report TICs at the request of the client.

Volatile Organics in Air

Canisters were released from the laboratory on May 23, 2022. The canister certification results are provided as an addendum.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The canister ID numbers on the sample tags were misassigned in the laboratory, subsequently the cansiter ID numbers on the COC do not line up with the actual canister ID numbers. The samples were logged in based on the sample IDs on the canister tags.

L2227668-05D,-06D,-07D: The samples have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

The WG1648255-3 LCS recoveries for cis-1,3-dichloropropene (135%) and bromoform (131%) are above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of these analytes.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 06/17/22

AIR

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-01
Client ID: SG-1
Sample Location: PHILA, PA

Date Collected: 05/25/22 07:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 04:25
Analyst: RY

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.522	0.200	0.058	2.58	0.989	0.288		1
Chloromethane	0.512	0.200	0.069	1.06	0.413	0.142		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	0.559	0.200	0.067	1.24	0.442	0.148		1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	0.370	0.500	0.060	0.848	1.15	0.137	J	1
Acetone	4.58	1.00	0.689	10.9	2.38	1.64		1
Trichlorofluoromethane	0.216	0.200	0.069	1.21	1.12	0.386		1
Isopropanol	1.05	0.500	0.478	2.58	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
Methylene chloride	0.199	0.500	0.134	0.691	1.74	0.466	J	1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	0.362	0.200	0.056	1.13	0.623	0.174		1
Freon-113	ND	0.200	0.066	ND	1.53	0.503		1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Chloroform	1.02	0.200	0.063	4.98	0.977	0.309		1
Tetrahydrofuran	0.231	0.500	0.057	0.681	1.47	0.168	J	1
1,2-Dichloroethane	0.393	0.200	0.060	1.59	0.809	0.244		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-01
Client ID: SG-1
Sample Location: PHILA, PA

Date Collected: 05/25/22 07:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	9.49	0.200	0.036	33.4	0.705	0.128		1
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
Benzene	7.90	0.200	0.049	25.2	0.639	0.156		1
Carbon tetrachloride	0.051	0.200	0.050	0.321	1.26	0.314	J	1
Cyclohexane	1.28	0.200	0.037	4.41	0.688	0.127		1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
4-Methyl-2-pentanone	1.68	0.500	0.042	6.88	2.05	0.173		1
Xylenes, Total	24.6	0.200	0.045	107	0.869	0.197		1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	30.4	0.200	0.052	115	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Tetrachloroethene	0.887	0.200	0.066	6.01	1.36	0.444		1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	4.20	0.200	0.043	18.2	0.869	0.188		1
p/m-Xylene	19.4	0.400	0.091	84.3	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	0.072	0.200	0.043	0.307	0.852	0.185	J	1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1
o-Xylene	5.13	0.200	0.045	22.3	0.869	0.197		1
Isopropylbenzene	0.353	0.200	0.049	1.74	0.983	0.241		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-01
Client ID: SG-1
Sample Location: PHILA, PA

Date Collected: 05/25/22 07:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	1.50	0.200	0.068	7.37	0.983	0.332		1
1,2,4-Trimethylbenzene	3.60	0.200	0.037	17.7	0.983	0.181		1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	0.388	0.200	0.089	2.03	1.05	0.464		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Butane	35	NJ	ppbV		1
unknown alkane	6.5	J	ppbV		1
Unknown	8.0	J	ppbV		1
Cyclohexane, 1,1,2,3-tetram...	6.6	NJ	ppbV		1
unknown alkane	8.0	J	ppbV		1
unknown alkane	4.2	J	ppbV		1
Unknown	8.3	J	ppbV		1
Cyclopentane	5.5	NJ	ppbV		1
Pentane	23	NJ	ppbV		1
unknown alkane	4.3	J	ppbV		1
Pentane, 2-methyl-	3.8	NJ	ppbV		1
Undecane	4.2	NJ	ppbV		1
Isobutane	4.9	NJ	ppbV		1
Unknown	3.7	J	ppbV		1
Heptane	4.8	NJ	ppbV		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-01
Client ID: SG-1
Sample Location: PHILA, PA

Date Collected: 05/25/22 07:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	101		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-02
Client ID: SG-2
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:03
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 05:04
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.510	0.200	0.058	2.52	0.989	0.288		1
Chloromethane	0.512	0.200	0.069	1.06	0.413	0.142		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	0.422	0.200	0.067	0.934	0.442	0.148		1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	ND	0.500	0.060	ND	1.15	0.137		1
Acetone	12.9	1.00	0.689	30.6	2.38	1.64		1
Trichlorofluoromethane	0.203	0.200	0.069	1.14	1.12	0.386		1
Isopropanol	ND	0.500	0.478	ND	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
Methylene chloride	0.255	0.500	0.134	0.886	1.74	0.466	J	1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	2.66	0.200	0.056	8.28	0.623	0.174		1
Freon-113	ND	0.200	0.066	ND	1.53	0.503		1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Chloroform	0.078	0.200	0.063	0.381	0.977	0.309	J	1
Tetrahydrofuran	0.244	0.500	0.057	0.720	1.47	0.168	J	1
1,2-Dichloroethane	ND	0.200	0.060	ND	0.809	0.244		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-02
Client ID: SG-2
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:03
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	0.599	0.200	0.036	2.11	0.705	0.128		1
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
Benzene	0.931	0.200	0.049	2.97	0.639	0.156		1
Carbon tetrachloride	ND	0.200	0.050	ND	1.26	0.314		1
Cyclohexane	0.190	0.200	0.037	0.654	0.688	0.127	J	1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
4-Methyl-2-pentanone	0.549	0.500	0.042	2.25	2.05	0.173		1
Xylenes, Total	3.25	0.200	0.045	14.1	0.869	0.197		1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	1.29	0.200	0.052	4.86	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Tetrachloroethene	0.096	0.200	0.066	0.651	1.36	0.444	J	1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	0.524	0.200	0.043	2.28	0.869	0.188		1
p/m-Xylene	2.09	0.400	0.091	9.08	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	0.105	0.200	0.043	0.447	0.852	0.185	J	1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1
o-Xylene	1.16	0.200	0.045	5.04	0.869	0.197		1
Isopropylbenzene	0.200	0.200	0.049	0.983	0.983	0.241		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-02
Client ID: SG-2
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:03
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	0.399	0.200	0.068	1.96	0.983	0.332		1
1,2,4-Trimethylbenzene	1.13	0.200	0.037	5.56	0.983	0.181		1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	0.186	0.200	0.089	0.975	1.05	0.464	J	1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
unknown alkane	3.6	J	ppbV		1
Butane	1.3	NJ	ppbV		1
Propene	1.4	NJ	ppbV		1
unknown alkane	7.5	J	ppbV		1
unknown alkane	4.8	J	ppbV		1
Unknown	1.2	J	ppbV		1
unknown alkane	1.7	J	ppbV		1
Unknown	1.4	J	ppbV		1
Pentane, 2,4-dimethyl-	1.6	NJ	ppbV		1
Pentane	1.3	NJ	ppbV		1
Unknown	1.1	J	ppbV		1
Isobutane	1.8	NJ	ppbV		1
Methyl Alcohol	1.4	NJ	ppbV		1
Unknown	1.5	J	ppbV		1
2-Butanone	1.3	NJ	ppbV		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-02
Client ID: SG-2
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:03
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-03
Client ID: SG-3
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:54
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 05:42
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.545	0.200	0.058	2.69	0.989	0.288		1
Chloromethane	0.556	0.200	0.069	1.15	0.413	0.142		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	ND	0.200	0.067	ND	0.442	0.148		1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	0.401	0.500	0.060	0.919	1.15	0.137	J	1
Acetone	2.80	1.00	0.689	6.65	2.38	1.64		1
Trichlorofluoromethane	0.213	0.200	0.069	1.20	1.12	0.386		1
Isopropanol	ND	0.500	0.478	ND	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
Methylene chloride	2.04	0.500	0.134	7.09	1.74	0.466		1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	0.397	0.200	0.056	1.24	0.623	0.174		1
Freon-113	ND	0.200	0.066	ND	1.53	0.503		1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Chloroform	ND	0.200	0.063	ND	0.977	0.309		1
Tetrahydrofuran	0.076	0.500	0.057	0.224	1.47	0.168	J	1
1,2-Dichloroethane	0.169	0.200	0.060	0.684	0.809	0.244	J	1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-03
Client ID: SG-3
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:54
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	2.64	0.200	0.036	9.30	0.705	0.128		1
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
Benzene	3.05	0.200	0.049	9.74	0.639	0.156		1
Carbon tetrachloride	0.070	0.200	0.050	0.440	1.26	0.314	J	1
Cyclohexane	0.238	0.200	0.037	0.819	0.688	0.127		1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
4-Methyl-2-pentanone	0.071	0.500	0.042	0.291	2.05	0.173	J	1
Xylenes, Total	6.42	0.200	0.045	27.9	0.869	0.197		1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	6.84	0.200	0.052	25.8	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Tetrachloroethene	0.067	0.200	0.066	0.454	1.36	0.444	J	1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	1.28	0.200	0.043	5.56	0.869	0.188		1
p/m-Xylene	5.17	0.400	0.091	22.5	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	ND	0.200	0.043	ND	0.852	0.185		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1
o-Xylene	1.24	0.200	0.045	5.39	0.869	0.197		1
Isopropylbenzene	0.082	0.200	0.049	0.403	0.983	0.241	J	1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-03
Client ID: SG-3
Sample Location: PHILA, PA

Date Collected: 05/25/22 08:54
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	0.424	0.200	0.068	2.08	0.983	0.332		1
1,2,4-Trimethylbenzene	1.54	0.200	0.037	7.57	0.983	0.181		1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	1.59	0.200	0.089	8.34	1.05	0.464		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Methyl Alcohol	8.2	NJ	ppbV		1
Pentane	3.4	NJ	ppbV		1
Ethyl Alcohol	1.5	NJ	ppbV		1
Butane	1.6	NJ	ppbV		1
unknown alkane	2.0	J	ppbV		1
Acetaldehyde	2.0	NJ	ppbV		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	95		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-04
Client ID: SG-4
Sample Location: PHILA, PA

Date Collected: 05/25/22 09:21
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 06:21
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.533	0.200	0.058	2.64	0.989	0.288		1
Chloromethane	0.597	0.200	0.069	1.23	0.413	0.142		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	0.096	0.200	0.067	0.212	0.442	0.148	J	1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	0.231	0.500	0.060	0.530	1.15	0.137	J	1
Acetone	2.71	1.00	0.689	6.44	2.38	1.64		1
Trichlorofluoromethane	0.213	0.200	0.069	1.20	1.12	0.386		1
Isopropanol	ND	0.500	0.478	ND	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
Methylene chloride	0.236	0.500	0.134	0.820	1.74	0.466	J	1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	0.348	0.200	0.056	1.08	0.623	0.174		1
Freon-113	0.071	0.200	0.066	0.544	1.53	0.503	J	1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Chloroform	ND	0.200	0.063	ND	0.977	0.309		1
Tetrahydrofuran	ND	0.500	0.057	ND	1.47	0.168		1
1,2-Dichloroethane	ND	0.200	0.060	ND	0.809	0.244		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-04
Client ID: SG-4
Sample Location: PHILA, PA

Date Collected: 05/25/22 09:21
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	1.06	0.200	0.036	3.74	0.705	0.128		1
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
Benzene	1.06	0.200	0.049	3.39	0.639	0.156		1
Carbon tetrachloride	0.068	0.200	0.050	0.428	1.26	0.314	J	1
Cyclohexane	0.401	0.200	0.037	1.38	0.688	0.127		1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
4-Methyl-2-pentanone	ND	0.500	0.042	ND	2.05	0.173		1
Xylenes, Total	0.586	0.200	0.045	2.55	0.869	0.197	J	1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	0.697	0.200	0.052	2.63	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Tetrachloroethene	ND	0.200	0.066	ND	1.36	0.444		1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	0.111	0.200	0.043	0.482	0.869	0.188	J	1
p/m-Xylene	0.410	0.400	0.091	1.78	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	ND	0.200	0.043	ND	0.852	0.185		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1
o-Xylene	0.176	0.200	0.045	0.764	0.869	0.197	J	1
Isopropylbenzene	ND	0.200	0.049	ND	0.983	0.241		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-04
Client ID: SG-4
Sample Location: PHILA, PA

Date Collected: 05/25/22 09:21
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	0.068	ND	0.983	0.332		1
1,2,4-Trimethylbenzene	0.139	0.200	0.037	0.683	0.983	0.181	J	1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	ND	0.200	0.089	ND	1.05	0.464		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Methyl Alcohol	2.8	NJ	ppbV		1
Butane	1.2	NJ	ppbV		1
Acetaldehyde	1.5	NJ	ppbV		1
Pentane	1.8	NJ	ppbV		1
Nonanal	1.7	NJ	ppbV		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	96		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-05 D
Client ID: SG-5
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:06
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 08:09
Analyst: RY

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2500	729.	ND	12400	3600		12500
Chloromethane	ND	2500	861.	ND	5160	1780		12500
Vinyl chloride	ND	2500	784.	ND	6390	2000		12500
1,3-Butadiene	ND	2500	838.	ND	5530	1850		12500
Bromomethane	ND	2500	966.	ND	9710	3750		12500
Chloroethane	ND	2500	1010	ND	6600	2670		12500
Vinyl bromide	ND	2500	896.	ND	10900	3920		12500
Acrolein	ND	6250	745.	ND	14300	1710		12500
Acetone	ND	12500	8610	ND	29700	20500		12500
Trichlorofluoromethane	ND	2500	858.	ND	14000	4820		12500
Isopropanol	ND	6250	5980	ND	15400	14700		12500
Acrylonitrile	ND	6250	694.	ND	13600	1510		12500
1,1-Dichloroethene	ND	2500	804.	ND	9910	3190		12500
Methylene chloride	ND	6250	1680	ND	21700	5840		12500
3-Chloropropene	ND	2500	731.	ND	7830	2290		12500
Carbon disulfide	ND	2500	699.	ND	7790	2180		12500
Freon-113	ND	2500	820.	ND	19200	6280		12500
trans-1,2-Dichloroethene	ND	2500	804.	ND	9910	3190		12500
1,1-Dichloroethane	ND	2500	785.	ND	10100	3180		12500
Methyl tert butyl ether	ND	2500	656.	ND	9010	2370		12500
Chloroform	ND	2500	791.	ND	12200	3860		12500
Tetrahydrofuran	ND	6250	710.	ND	18400	2090		12500
1,2-Dichloroethane	ND	2500	752.	ND	10100	3040		12500

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-05 D
Client ID: SG-5
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:06
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	29100	2500	455.	103000	8810	1600		12500
1,1,1-Trichloroethane	ND	2500	626.	ND	13600	3420		12500
Benzene	1360	2500	609.	4340	7990	1950	J	12500
Carbon tetrachloride	ND	2500	624.	ND	15700	3930		12500
Cyclohexane	354000	2500	460.	1220000	8610	1580		12500
1,2-Dichloropropane	ND	2500	762.	ND	11600	3520		12500
Bromodichloromethane	ND	2500	630.	ND	16700	4220		12500
1,4-Dioxane	ND	2500	1010	ND	9010	3640		12500
Trichloroethene	ND	2500	631.	ND	13400	3390		12500
Methyl Methacrylate	ND	6250	871.	ND	25600	3570		12500
4-Methyl-2-pentanone	ND	6250	526.	ND	25600	2160		12500
Xylenes, Total	ND	2500	566.	ND	10900	2460		12500
1,1,2-Trichloroethane	ND	2500	838.	ND	13600	4570		12500
Toluene	688	2500	650.	2590	9420	2450	J	12500
1,3-Dichloropropane	ND	2500	1320	ND	11600	6100		12500
Dibromochloromethane	ND	2500	768.	ND	21300	6540		12500
1,2-Dibromoethane	ND	2500	701.	ND	19200	5390		12500
Tetrachloroethene	ND	2500	819.	ND	17000	5550		12500
Chlorobenzene	ND	2500	780.	ND	11500	3590		12500
Ethylbenzene	ND	2500	540.	ND	10900	2350		12500
p/m-Xylene	ND	5000	1140	ND	21700	4950		12500
Bromoform	ND	2500	801.	ND	25800	8280		12500
Styrene	ND	2500	542.	ND	10600	2310		12500
1,1,2,2-Tetrachloroethane	ND	2500	768.	ND	17200	5270		12500
o-Xylene	ND	2500	566.	ND	10900	2460		12500
Isopropylbenzene	ND	2500	614.	ND	12300	3020		12500

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-05 D
Client ID: SG-5
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:06
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	2500	844.	ND	12300	4150		12500
1,2,4-Trimethylbenzene	ND	2500	460.	ND	12300	2260		12500
Benzyl chloride	ND	2500	602.	ND	12900	3120		12500
1,4-Dichlorobenzene	ND	2500	795.	ND	15000	4780		12500
1,2-Dichlorobenzene	ND	2500	785.	ND	15000	4720		12500
1,2,4-Trichlorobenzene	ND	2500	842.	ND	18600	6250		12500
Naphthalene	ND	2500	1110	ND	13100	5820		12500

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Hexane, 3-methyl-	460000	NJ	ppbV		12500
1-Pentene, 2,4,4-trimethyl-	340000	NJ	ppbV		12500
Cyclopentane, Methyl-	160000	NJ	ppbV		12500
Unknown	290000	J	ppbV		12500
unknown alkane	370000	J	ppbV		12500
Cyclohexane, methyl-	500000	NJ	ppbV		12500
Unknown	210000	J	ppbV		12500
Hexane, 2-methyl-	340000	NJ	ppbV		12500
Pentane, 2,3-dimethyl-	240000	NJ	ppbV		12500
Unknown	170000	J	ppbV		12500
Pentane, 3-methyl-	920000	NJ	ppbV		12500
Butane, 2-Methyl-	150000	NJ	ppbV		12500
Unknown	140000	J	ppbV		12500
Pentane, 2-methyl-	910000	NJ	ppbV		12500
Pentane, 2,4-dimethyl-	270000	NJ	ppbV		12500

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-05 D
Client ID: SG-5
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:06
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	104		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-06 D
Client ID: SG-6
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 10:11
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	18.2	5.32	ND	90.0	26.3		91.24
Chloromethane	ND	18.2	6.29	ND	37.6	13.0		91.24
Vinyl chloride	ND	18.2	5.72	ND	46.5	14.6		91.24
1,3-Butadiene	ND	18.2	6.11	ND	40.3	13.5		91.24
Bromomethane	ND	18.2	7.05	ND	70.7	27.4		91.24
Chloroethane	ND	18.2	7.34	ND	48.0	19.4		91.24
Vinyl bromide	ND	18.2	6.54	ND	79.6	28.6		91.24
Acrolein	ND	45.6	5.44	ND	105	12.5		91.24
Acetone	ND	91.2	62.9	ND	217	149.		91.24
Trichlorofluoromethane	ND	18.2	6.26	ND	102	35.2		91.24
Isopropanol	ND	45.6	43.6	ND	112	107.		91.24
Acrylonitrile	ND	45.6	5.06	ND	99.0	11.0		91.24
1,1-Dichloroethene	ND	18.2	5.87	ND	72.2	23.3		91.24
Methylene chloride	ND	45.6	12.2	ND	158	42.4		91.24
3-Chloropropene	ND	18.2	5.34	ND	57.0	16.7		91.24
Carbon disulfide	ND	18.2	5.10	ND	56.7	15.9		91.24
Freon-113	ND	18.2	5.98	ND	139	45.8		91.24
trans-1,2-Dichloroethene	ND	18.2	5.87	ND	72.2	23.3		91.24
1,1-Dichloroethane	ND	18.2	5.73	ND	73.7	23.2		91.24
Methyl tert butyl ether	ND	18.2	4.79	ND	65.6	17.3		91.24
Chloroform	ND	18.2	5.78	ND	88.9	28.2		91.24
Tetrahydrofuran	ND	45.6	5.18	ND	134	15.3		91.24
1,2-Dichloroethane	ND	18.2	5.49	ND	73.7	22.2		91.24

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-06 D
Client ID: SG-6
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	10.5	18.2	3.32	37.0	64.1	11.7	J	91.24
1,1,1-Trichloroethane	ND	18.2	4.57	ND	99.3	24.9		91.24
Benzene	ND	18.2	4.44	ND	58.1	14.2		91.24
Carbon tetrachloride	ND	18.2	4.55	ND	114	28.6		91.24
Cyclohexane	68.6	18.2	3.36	236	62.6	11.6		91.24
1,2-Dichloropropane	ND	18.2	5.56	ND	84.1	25.7		91.24
Bromodichloromethane	ND	18.2	4.60	ND	122	30.8		91.24
1,4-Dioxane	ND	18.2	7.34	ND	65.6	26.5		91.24
Trichloroethene	ND	18.2	4.61	ND	97.8	24.8		91.24
Methyl Methacrylate	ND	45.6	6.36	ND	187	26.0		91.24
4-Methyl-2-pentanone	83.1	45.6	3.84	341	187	15.7		91.24
Xylenes, Total	12.7	18.2	4.13	55.2	79.1	17.9	J	91.24
1,1,2-Trichloroethane	ND	18.2	6.11	ND	99.3	33.3		91.24
Toluene	31.8	18.2	4.74	120	68.6	17.9		91.24
1,3-Dichloropropane	ND	18.2	9.67	ND	84.1	44.7		91.24
Dibromochloromethane	ND	18.2	5.60	ND	155	47.7		91.24
1,2-Dibromoethane	ND	18.2	5.12	ND	140	39.3		91.24
Tetrachloroethene	ND	18.2	5.98	ND	123	40.6		91.24
Chlorobenzene	ND	18.2	5.69	ND	83.8	26.2		91.24
Ethylbenzene	ND	18.2	3.94	ND	79.1	17.1		91.24
p/m-Xylene	12.7	36.5	8.30	55.2	159	36.1	J	91.24
Bromoform	ND	18.2	5.85	ND	188	60.5		91.24
Styrene	ND	18.2	3.96	ND	77.5	16.9		91.24
1,1,2,2-Tetrachloroethane	ND	18.2	5.60	ND	125	38.5		91.24
o-Xylene	ND	18.2	4.13	ND	79.1	17.9		91.24
Isopropylbenzene	ND	18.2	4.48	ND	89.5	22.0		91.24

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-06 D
Client ID: SG-6
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	18.2	6.16	ND	89.5	30.3		91.24
1,2,4-Trimethylbenzene	ND	18.2	3.36	ND	89.5	16.5		91.24
Benzyl chloride	ND	18.2	4.40	ND	94.2	22.8		91.24
1,4-Dichlorobenzene	ND	18.2	5.80	ND	109	34.9		91.24
1,2-Dichlorobenzene	ND	18.2	5.73	ND	109	34.5		91.24
1,2,4-Trichlorobenzene	ND	18.2	6.15	ND	135	45.7		91.24
Naphthalene	ND	18.2	8.07	ND	95.4	42.3		91.24

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Pentane, 2,3-dimethyl-	1800	NJ	ppbV		91.24
Unknown	990	J	ppbV		91.24
unknown cycloalkane	920	J	ppbV		91.24
Pentane, 2,4-dimethyl-	1600	NJ	ppbV		91.24
Cyclohexane, 1,1,3-trimethyl-	1700	NJ	ppbV		91.24
Cyclopentane, 1,2,4-trimethyl-	890	NJ	ppbV		91.24
Cyclopentane, 1,1,3-trimethyl-	1200	NJ	ppbV		91.24
Hexane, 2,4-dimethyl-	1700	NJ	ppbV		91.24
unknown alkane	950	J	ppbV		91.24
1-Pentene, 2,4,4-trimethyl-	810	NJ	ppbV		91.24
unknown alkane	3800	J	ppbV		91.24
unknown cycloalkane	930	J	ppbV		91.24
Hexane, 2,5-dimethyl-	770	NJ	ppbV		91.24
Pentane, 3-methyl-	1300	NJ	ppbV		91.24
unknown alkane	1500	J	ppbV		91.24

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-06 D
Client ID: SG-6
Sample Location: PHILA, PA

Date Collected: 05/25/22 10:38
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	103		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	107		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-07 D
Client ID: SG-7
Sample Location: PHILA, PA

Date Collected: 05/25/22 11:10
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/09/22 09:21
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	125.	36.4	ND	618	180.		625
Chloromethane	ND	125.	43.1	ND	258	89.0		625
Vinyl chloride	ND	125.	39.2	ND	320	100.		625
1,3-Butadiene	ND	125.	41.9	ND	277	92.7		625
Bromomethane	ND	125.	48.3	ND	485	188.		625
Chloroethane	ND	125.	50.3	ND	330	133.		625
Vinyl bromide	ND	125.	44.8	ND	547	196.		625
Acrolein	ND	312.	37.2	ND	715	85.3		625
Acetone	ND	625.	431.	ND	1480	1020		625
Trichlorofluoromethane	ND	125.	42.9	ND	702	241.		625
Isopropanol	ND	312.	299.	ND	767	735.		625
Acrylonitrile	ND	312.	34.7	ND	677	75.3		625
1,1-Dichloroethene	ND	125.	40.2	ND	496	159.		625
Methylene chloride	ND	312	83.8	ND	1080	291.		625
3-Chloropropene	ND	125.	36.6	ND	391	115.		625
Carbon disulfide	ND	125.	34.9	ND	389	109.		625
Freon-113	ND	125.	41.0	ND	958	314.		625
trans-1,2-Dichloroethene	ND	125.	40.2	ND	496	159.		625
1,1-Dichloroethane	ND	125.	39.2	ND	506	159.		625
Methyl tert butyl ether	ND	125.	32.8	ND	451	118.		625
Chloroform	ND	125.	39.6	ND	610	193.		625
Tetrahydrofuran	ND	312.	35.5	ND	920	105.		625
1,2-Dichloroethane	ND	125.	37.6	ND	506	152.		625

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-07 D
Client ID: SG-7
Sample Location: PHILA, PA

Date Collected: 05/25/22 11:10
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Hexane	279	125	22.8	983	441	80.4		625
1,1,1-Trichloroethane	ND	125.	31.3	ND	682	171.		625
Benzene	ND	125.	30.4	ND	399	97.1		625
Carbon tetrachloride	ND	125.	31.2	ND	786	196.		625
Cyclohexane	7570	125	23.0	26100	430	79.2		625
1,2-Dichloropropane	ND	125.	38.1	ND	578	176.		625
Bromodichloromethane	ND	125.	31.5	ND	837	211.		625
1,4-Dioxane	ND	125.	50.3	ND	450	181.		625
Trichloroethene	ND	125.	31.6	ND	672	170.		625
Methyl Methacrylate	ND	312.	43.6	ND	1280	179.		625
4-Methyl-2-pentanone	ND	312.	26.3	ND	1280	108.		625
Xylenes, Total	ND	125.	28.3	ND	543	123.		625
1,1,2-Trichloroethane	ND	125.	41.9	ND	682	229.		625
Toluene	45.0	125	32.5	170	471	122.	J	625
1,3-Dichloropropane	ND	125.	66.2	ND	578	306.		625
Dibromochloromethane	ND	125.	38.4	ND	1060	327.		625
1,2-Dibromoethane	ND	125.	35.1	ND	961	270.		625
Tetrachloroethene	ND	125.	40.9	ND	848	277.		625
Chlorobenzene	ND	125.	39.0	ND	576	180.		625
Ethylbenzene	ND	125.	27.0	ND	543	117.		625
p/m-Xylene	ND	250.	56.9	ND	1090	247.		625
Bromoform	ND	125.	40.1	ND	1290	415.		625
Styrene	ND	125.	27.1	ND	532	115.		625
1,1,2,2-Tetrachloroethane	ND	125.	38.4	ND	858	264.		625
o-Xylene	ND	125.	28.3	ND	543	123.		625
Isopropylbenzene	ND	125.	30.7	ND	615	151.		625

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-07 D
Client ID: SG-7
Sample Location: PHILA, PA

Date Collected: 05/25/22 11:10
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	125.	42.2	ND	615	207.		625
1,2,4-Trimethylbenzene	ND	125.	23.0	ND	615	113.		625
Benzyl chloride	ND	125.	30.1	ND	647	156.		625
1,4-Dichlorobenzene	ND	125.	39.8	ND	752	239.		625
1,2-Dichlorobenzene	ND	125.	39.2	ND	752	236.		625
1,2,4-Trichlorobenzene	ND	125.	42.1	ND	928	313.		625
Naphthalene	ND	125.	55.3	ND	655	290.		625

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Cyclohexane, methyl-	23000	NJ	ppbV		625
unknown alkane	7200	J	ppbV		625
Pentane, 3-methyl-	29000	NJ	ppbV		625
unknown cycloalkane	5300	J	ppbV		625
Pentane, 2,3-dimethyl-	10000	NJ	ppbV		625
Hexane, 2-methyl-	8400	NJ	ppbV		625
Butane, 2,3-Dimethyl-	14000	NJ	ppbV		625
1-Pentene, 2,4,4-trimethyl-	4000	NJ	ppbV		625
Hexane, 3-methyl-	13000	NJ	ppbV		625
Pentane, 2-methyl-	25000	NJ	ppbV		625
unknown alkane	7200	J	ppbV		625
unknown alkane	8000	J	ppbV		625
unknown alkane	39000	J	ppbV		625
Butane, 2-Methyl-	7800	NJ	ppbV		625
Pentane, 2,4-dimethyl-	12000	NJ	ppbV		625

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

SAMPLE RESULTS

Lab ID: L2227668-07 D
Client ID: SG-7
Sample Location: PHILA, PA

Date Collected: 05/25/22 11:10
Date Received: 05/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	103		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	106		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/08/22 16:35

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1648255-4								
Dichlorodifluoromethane	ND	0.200	0.058	ND	0.989	0.288		1
Chloromethane	ND	0.200	0.069	ND	0.413	0.142		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	ND	0.200	0.067	ND	0.442	0.148		1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	ND	0.500	0.060	ND	1.15	0.137		1
Acetone	ND	1.00	0.689	ND	2.38	1.64		1
Trichlorofluoromethane	ND	0.200	0.069	ND	1.12	0.386		1
Isopropanol	ND	0.500	0.478	ND	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
Methylene chloride	ND	0.500	0.134	ND	1.74	0.466		1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	ND	0.200	0.056	ND	0.623	0.174		1
Freon-113	ND	0.200	0.066	ND	1.53	0.503		1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Xylenes, Total	ND	0.200	0.045	ND	0.869	0.197		1
Chloroform	ND	0.200	0.063	ND	0.977	0.309		1
Tetrahydrofuran	ND	0.500	0.057	ND	1.47	0.168		1
1,2-Dichloroethane	ND	0.200	0.060	ND	0.809	0.244		1
n-Hexane	ND	0.200	0.036	ND	0.705	0.128		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/08/22 16:35

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1648255-4								
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
Benzene	ND	0.200	0.049	ND	0.639	0.156		1
Carbon tetrachloride	ND	0.200	0.050	ND	1.26	0.314		1
Cyclohexane	ND	0.200	0.037	ND	0.688	0.127		1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
4-Methyl-2-pentanone	ND	0.500	0.042	ND	2.05	0.173		1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	ND	0.200	0.052	ND	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Tetrachloroethene	ND	0.200	0.066	ND	1.36	0.444		1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	ND	0.200	0.043	ND	0.869	0.188		1
p/m-Xylene	ND	0.400	0.091	ND	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	ND	0.200	0.043	ND	0.852	0.185		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1
o-Xylene	ND	0.200	0.045	ND	0.869	0.197		1
Isopropylbenzene	ND	0.200	0.049	ND	0.983	0.241		1
1,3,5-Trimethylbenzene	ND	0.200	0.068	ND	0.983	0.332		1

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678
Lab Number: L2227668
Report Date: 06/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/08/22 16:35

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1648255-4								
1,2,4-Trimethylbenzene	ND	0.200	0.037	ND	0.983	0.181		1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	ND	0.200	0.089	ND	1.05	0.464		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2227668

Report Date: 06/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1648255-3								
Dichlorodifluoromethane	108		-		70-130	-		
Chloromethane	93		-		70-130	-		
Vinyl chloride	106		-		70-130	-		
1,3-Butadiene	111		-		70-130	-		
Bromomethane	99		-		70-130	-		
Chloroethane	96		-		70-130	-		
Vinyl bromide	85		-		70-130	-		
Acrolein	97		-		60-113	-		
Acetone	87		-		40-160	-		
Trichlorofluoromethane	96		-		70-130	-		
Isopropanol	76		-		40-160	-		
Acrylonitrile	96		-		70-130	-		
1,1-Dichloroethene	95		-		70-130	-		
Methylene chloride	95		-		70-130	-		
3-Chloropropene	82		-		70-130	-		
Carbon disulfide	96		-		70-130	-		
Freon-113	103		-		70-130	-		
trans-1,2-Dichloroethene	84		-		70-130	-		
1,1-Dichloroethane	88		-		70-130	-		
Methyl tert butyl ether	91		-		70-130	-		
Chloroform	99		-		70-130	-		
Tetrahydrofuran	82		-		70-130	-		
1,2-Dichloroethane	85		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2227668

Report Date: 06/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1648255-3								
n-Hexane	109		-		70-130	-		
1,1,1-Trichloroethane	113		-		70-130	-		
Benzene	123		-		70-130	-		
Carbon tetrachloride	120		-		70-130	-		
Cyclohexane	117		-		70-130	-		
1,2-Dichloropropane	111		-		70-130	-		
Bromodichloromethane	120		-		70-130	-		
1,4-Dioxane	116		-		70-130	-		
Trichloroethene	126		-		70-130	-		
Methyl Methacrylate	100		-		40-160	-		
4-Methyl-2-pentanone	108		-		70-130	-		
1,1,2-Trichloroethane	127		-		70-130	-		
Toluene	109		-		70-130	-		
1,3-Dichloropropane	111		-		70-130	-		
Dibromochloromethane	124		-		70-130	-		
1,2-Dibromoethane	126		-		70-130	-		
Tetrachloroethene	118		-		70-130	-		
Chlorobenzene	118		-		70-130	-		
Ethylbenzene	117		-		70-130	-		
p/m-Xylene	116		-		70-130	-		
Bromoform	**131**	Q	-		70-130	-		
Styrene	126		-		70-130	-		
1,1,2,2-Tetrachloroethane	122		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALLIANCE 51ST STREET

Project Number: 30108678

Lab Number: L2227668

Report Date: 06/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1648255-3								
o-Xylene	117		-		70-130	-		
Isopropylbenzene	112		-		70-130	-		
1,3,5-Trimethylbenzene	119		-		70-130	-		
1,2,4-Trimethylbenzene	119		-		70-130	-		
Benzyl chloride	110		-		70-130	-		
1,4-Dichlorobenzene	116		-		70-130	-		
1,2-Dichlorobenzene	118		-		70-130	-		
1,2,4-Trichlorobenzene	123		-		70-130	-		
Naphthalene	117		-		70-130	-		

Project Name: ALLIANCE 51ST STREET

Lab Number: L2227668

Project Number: 30108678

Report Date: 06/17/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2227668-01	SG-1	01135	Flow 2	05/23/22	388990		-	-	-	Pass	144	137	5
L2227668-01	SG-1	364	2.7L Can	05/23/22	388990	L2225888-06	Pass	-29.5	-4.0	-	-	-	-
L2227668-02	SG-2	0336	Flow 1	05/23/22	388990		-	-	-	Pass	144	143	1
L2227668-02	SG-2	346	2.7L Can	05/23/22	388990	L2225888-06	Pass	-29.4	-3.9	-	-	-	-
L2227668-03	SG-3	01167	Flow 1	05/23/22	388990		-	-	-	Pass	144	139	4
L2227668-03	SG-3	2374	2.7L Can	05/23/22	388990	L2226183-02	Pass	-28.6	-3.4	-	-	-	-
L2227668-04	SG-4	0947	Flow 2	05/23/22	388990		-	-	-	Pass	144	4.9	187
L2227668-04	SG-4	2079	2.7L Can	05/23/22	388990	L2226183-02	Pass	-29.5	-4.9	-	-	-	-
L2227668-05	SG-5	01402	Flow 1	05/23/22	388990		-	-	-	Pass	144	143	1
L2227668-05	SG-5	3159	2.7L Can	05/23/22	388990	L2226183-02	Pass	-29.5	-2.6	-	-	-	-
L2227668-06	SG-6	0187	Flow 1	05/23/22	388990		-	-	-	Pass	144	141	2
L2227668-06	SG-6	537	2.7L Can	05/23/22	388990	L2226183-02	Pass	-29.4	0.0	-	-	-	-
L2227668-07	SG-7	01638	Flow 1	05/23/22	388990		-	-	-	Pass	144	134	7
L2227668-07	SG-7	403	2.7L Can	05/23/22	388990	L2226183-02	Pass	-29.4	-3.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2225888

Project Number: CANISTER QC BAT **Report Date:** 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/18/22 00:12
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	0.058	ND	0.707	0.207		1
Propylene	ND	0.500	0.060	ND	0.861	0.103		1
Propane	ND	0.500	0.132	ND	0.902	0.238		1
Dichlorodifluoromethane	ND	0.200	0.058	ND	0.989	0.288		1
Chloromethane	ND	0.200	0.069	ND	0.413	0.142		1
Freon-114	ND	0.200	0.059	ND	1.40	0.413		1
Methanol	ND	5.00	1.84	ND	6.55	2.41		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	ND	0.200	0.067	ND	0.442	0.148		1
Butane	ND	0.200	0.065	ND	0.475	0.154		1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Ethanol	ND	5.00	0.733	ND	9.42	1.38		1
Dichlorofluoromethane	ND	0.200	0.081	ND	0.842	0.340		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	ND	0.500	0.060	ND	1.15	0.137		1
Acetone	ND	1.00	0.689	ND	2.38	1.64		1
Acetonitrile	ND	0.200	0.082	ND	0.336	0.138		1
Trichlorofluoromethane	ND	0.200	0.069	ND	1.12	0.386		1
Isopropanol	ND	0.500	0.478	ND	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
Pentane	ND	0.200	0.066	ND	0.590	0.194		1
Ethyl ether	ND	0.200	0.074	ND	0.606	0.223		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	0.047	ND	1.52	0.141		1
Methylene chloride	ND	0.500	0.134	ND	1.74	0.466		1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	ND	0.200	0.056	ND	0.623	0.174		1
Freon-113	ND	0.200	0.066	ND	1.53	0.503		1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Vinyl acetate	ND	1.00	0.048	ND	3.52	0.169		1
Xylenes, total	ND	0.600	0.045	ND	0.869	0.197		1
2-Butanone	ND	0.500	0.048	ND	1.47	0.142		1
cis-1,2-Dichloroethene	ND	0.200	0.117	ND	0.793	0.464		1
Ethyl Acetate	ND	0.500	0.122	ND	1.80	0.440		1
Chloroform	ND	0.200	0.063	ND	0.977	0.309		1
Tetrahydrofuran	ND	0.500	0.057	ND	1.47	0.168		1
2,2-Dichloropropane	ND	0.200	0.046	ND	0.924	0.212		1
1,2-Dichloroethane	ND	0.200	0.060	ND	0.809	0.244		1
n-Hexane	ND	0.200	0.036	ND	0.705	0.128		1
Diisopropyl ether	ND	0.200	0.062	ND	0.836	0.260		1
tert-Butyl Ethyl Ether	ND	0.200	0.042	ND	0.836	0.176		1
1,2-Dichloroethene (total)	ND	1.00	0.064	ND	1.00	0.255		1
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
1,1-Dichloropropene	ND	0.200	0.046	ND	0.908	0.207		1
Benzene	ND	0.200	0.049	ND	0.639	0.156		1
Carbon tetrachloride	ND	0.200	0.050	ND	1.26	0.314		1
Cyclohexane	ND	0.200	0.037	ND	0.688	0.127		1
tert-Amyl Methyl Ether	ND	0.200	0.048	ND	0.836	0.199		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	0.056	ND	1.42	0.400		1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
2,2,4-Trimethylpentane	ND	0.200	0.036	ND	0.934	0.169		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
Heptane	ND	0.200	0.047	ND	0.820	0.193		1
cis-1,3-Dichloropropene	ND	0.200	0.041	ND	0.908	0.186		1
4-Methyl-2-pentanone	ND	0.500	0.042	ND	2.05	0.173		1
trans-1,3-Dichloropropene	ND	0.200	0.044	ND	0.908	0.198		1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	ND	0.200	0.052	ND	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
2-Hexanone	ND	0.200	0.065	ND	0.820	0.266		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Butyl acetate	ND	0.500	0.126	ND	2.38	0.599		1
Octane	ND	0.200	0.045	ND	0.934	0.208		1
Tetrachloroethene	ND	0.200	0.066	ND	1.36	0.444		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.056	ND	1.37	0.385		1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	ND	0.200	0.043	ND	0.869	0.188		1
p/m-Xylene	ND	0.400	0.091	ND	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	ND	0.200	0.043	ND	0.852	0.185		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	0.045	ND	0.869	0.197		1
1,2,3-Trichloropropane	ND	0.200	0.061	ND	1.21	0.368		1
Nonane	ND	0.200	0.046	ND	1.05	0.243		1
Isopropylbenzene	ND	0.200	0.049	ND	0.983	0.241		1
Bromobenzene	ND	0.200	0.061	ND	0.793	0.243		1
2-Chlorotoluene	ND	0.200	0.049	ND	1.04	0.252		1
n-Propylbenzene	ND	0.200	0.042	ND	0.983	0.206		1
4-Chlorotoluene	ND	0.200	0.056	ND	1.04	0.290		1
4-Ethyltoluene	ND	0.200	0.037	ND	0.983	0.182		1
1,3,5-Trimethylbenzene	ND	0.200	0.068	ND	0.983	0.332		1
tert-Butylbenzene	ND	0.200	0.042	ND	1.10	0.231		1
1,2,4-Trimethylbenzene	ND	0.200	0.037	ND	0.983	0.181		1
Decane	ND	0.200	0.040	ND	1.16	0.235		1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,3-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.377		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
sec-Butylbenzene	ND	0.200	0.043	ND	1.10	0.235		1
p-Isopropyltoluene	ND	0.200	0.052	ND	1.10	0.285		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
n-Butylbenzene	ND	0.200	0.044	ND	1.10	0.242		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.050	ND	1.93	0.478		1
Undecane	ND	0.200	0.043	ND	1.28	0.273		1
Dodecane	ND	0.200	0.066	ND	1.39	0.458		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	ND	0.200	0.089	ND	1.05	0.464		1
1,2,3-Trichlorobenzene	ND	0.200	0.072	ND	1.48	0.531		1
Hexachlorobutadiene	ND	0.200	0.053	ND	2.13	0.564		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2225888

Project Number: CANISTER QC BAT **Report Date:** 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/18/22 00:12
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	0.018	ND	0.989	0.089		1
Chloromethane	ND	0.200	0.024	ND	0.413	0.050		1
Freon-114	ND	0.050	0.007	ND	0.349	0.050		1
Vinyl chloride	ND	0.020	0.007	ND	0.051	0.018		1
1,3-Butadiene	ND	0.020	0.010	ND	0.044	0.022		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.033		1
Chloroethane	ND	0.100	0.014	ND	0.264	0.036		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.299	ND	2.38	0.710		1
Trichlorofluoromethane	ND	0.050	0.010	ND	0.281	0.053		1
Acrylonitrile	ND	0.500	0.025	ND	1.09	0.053		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.033		1
Methylene chloride	ND	0.500	0.013	ND	1.74	0.046		1
Freon-113	ND	0.050	0.009	ND	0.383	0.067		1
trans-1,2-Dichloroethene	ND	0.020	0.008	ND	0.079	0.030		1
1,1-Dichloroethane	ND	0.020	0.007	ND	0.081	0.030		1
Methyl tert butyl ether	ND	0.200	0.008	ND	0.721	0.030		1
2-Butanone	ND	0.500	0.027	ND	1.47	0.080		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.038		1
Chloroform	ND	0.020	0.009	ND	0.098	0.044		1
1,2-Dichloroethane	ND	0.020	0.010	ND	0.081	0.039		1
1,1,1-Trichloroethane	ND	0.020	0.008	ND	0.109	0.045		1
Benzene	ND	0.100	0.005	ND	0.319	0.016		1
Carbon tetrachloride	ND	0.020	0.010	ND	0.126	0.063		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	0.005	ND	0.092	0.025		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.045		1
1,4-Dioxane	ND	0.100	0.032	ND	0.360	0.115		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.033		1
cis-1,3-Dichloropropene	ND	0.020	0.007	ND	0.091	0.032		1
4-Methyl-2-pentanone	ND	0.500	0.012	ND	2.05	0.049		1
trans-1,3-Dichloropropene	ND	0.020	0.007	ND	0.091	0.032		1
1,1,2-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Toluene	ND	0.100	0.014	ND	0.377	0.053		1
Dibromochloromethane	ND	0.020	0.009	ND	0.170	0.073		1
1,2-Dibromoethane	ND	0.020	0.008	ND	0.154	0.062		1
Tetrachloroethene	ND	0.020	0.008	ND	0.136	0.053		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.005	ND	0.137	0.036		1
Chlorobenzene	ND	0.100	0.006	ND	0.461	0.030		1
Ethylbenzene	ND	0.020	0.005	ND	0.087	0.021		1
p/m-Xylene	ND	0.040	0.019	ND	0.174	0.083		1
Bromoform	ND	0.020	0.007	ND	0.207	0.067		1
Styrene	ND	0.020	0.005	ND	0.085	0.021		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.006	ND	0.137	0.039		1
o-Xylene	ND	0.020	0.007	ND	0.087	0.029		1
Isopropylbenzene	ND	0.200	0.005	ND	0.983	0.026		1
4-Ethyltoluene	ND	0.020	0.004	ND	0.098	0.021		1
1,3,5-Trimethybenzene	ND	0.020	0.006	ND	0.098	0.028		1
1,2,4-Trimethylbenzene	ND	0.020	0.004	ND	0.098	0.021		1
Benzyl chloride	ND	0.100	0.007	ND	0.518	0.037		1
1,3-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.034		1
1,4-Dichlorobenzene	ND	0.020	0.005	ND	0.120	0.032		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2225888
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2225888-06
Client ID: CAN 2869 SHELF 6
Sample Location:

Date Collected: 05/17/22 09:00
Date Received: 05/17/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	0.003	ND	1.10	0.018		1
p-Isopropyltoluene	ND	0.200	0.005	ND	1.10	0.025		1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.059		1
n-Butylbenzene	ND	0.200	0.005	ND	1.10	0.026		1
1,2,4-Trichlorobenzene	ND	0.050	0.030	ND	0.371	0.223		1
Naphthalene	ND	0.050	0.035	ND	0.262	0.184		1
1,2,3-Trichlorobenzene	ND	0.050	0.013	ND	0.371	0.100		1
Hexachlorobutadiene	ND	0.050	0.017	ND	0.533	0.181		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/18/22 20:56
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	0.058	ND	0.707	0.207		1
Propylene	ND	0.500	0.060	ND	0.861	0.103		1
Propane	ND	0.500	0.132	ND	0.902	0.238		1
Dichlorodifluoromethane	ND	0.200	0.058	ND	0.989	0.288		1
Chloromethane	ND	0.200	0.069	ND	0.413	0.142		1
Freon-114	ND	0.200	0.059	ND	1.40	0.413		1
Methanol	ND	5.00	1.84	ND	6.55	2.41		1
Vinyl chloride	ND	0.200	0.063	ND	0.511	0.160		1
1,3-Butadiene	ND	0.200	0.067	ND	0.442	0.148		1
Butane	ND	0.200	0.065	ND	0.475	0.154		1
Bromomethane	ND	0.200	0.077	ND	0.777	0.300		1
Chloroethane	ND	0.200	0.081	ND	0.528	0.212		1
Ethanol	ND	5.00	0.733	ND	9.42	1.38		1
Dichlorofluoromethane	ND	0.200	0.081	ND	0.842	0.340		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.313		1
Acrolein	ND	0.500	0.060	ND	1.15	0.137		1
Acetone	ND	1.00	0.689	ND	2.38	1.64		1
Acetonitrile	ND	0.200	0.082	ND	0.336	0.138		1
Trichlorofluoromethane	ND	0.200	0.069	ND	1.12	0.386		1
Isopropanol	ND	0.500	0.478	ND	1.23	1.17		1
Acrylonitrile	ND	0.500	0.056	ND	1.09	0.120		1
Pentane	ND	0.200	0.066	ND	0.590	0.194		1
Ethyl ether	ND	0.200	0.074	ND	0.606	0.223		1
1,1-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	0.047	ND	1.52	0.141		1
Methylene chloride	ND	0.500	0.134	ND	1.74	0.466		1
3-Chloropropene	ND	0.200	0.059	ND	0.626	0.183		1
Carbon disulfide	ND	0.200	0.056	ND	0.623	0.174		1
Freon-113	ND	0.200	0.066	ND	1.53	0.503		1
trans-1,2-Dichloroethene	ND	0.200	0.064	ND	0.793	0.255		1
1,1-Dichloroethane	ND	0.200	0.063	ND	0.809	0.254		1
Methyl tert butyl ether	ND	0.200	0.053	ND	0.721	0.189		1
Vinyl acetate	ND	1.00	0.048	ND	3.52	0.169		1
Xylenes, total	ND	0.600	0.045	ND	0.869	0.197		1
2-Butanone	ND	0.500	0.048	ND	1.47	0.142		1
cis-1,2-Dichloroethene	ND	0.200	0.117	ND	0.793	0.464		1
Ethyl Acetate	ND	0.500	0.122	ND	1.80	0.440		1
Chloroform	ND	0.200	0.063	ND	0.977	0.309		1
Tetrahydrofuran	ND	0.500	0.057	ND	1.47	0.168		1
2,2-Dichloropropane	ND	0.200	0.046	ND	0.924	0.212		1
1,2-Dichloroethane	ND	0.200	0.060	ND	0.809	0.244		1
n-Hexane	ND	0.200	0.036	ND	0.705	0.128		1
Diisopropyl ether	ND	0.200	0.062	ND	0.836	0.260		1
tert-Butyl Ethyl Ether	ND	0.200	0.042	ND	0.836	0.176		1
1,2-Dichloroethene (total)	ND	1.00	0.064	ND	1.00	0.255		1
1,1,1-Trichloroethane	ND	0.200	0.050	ND	1.09	0.273		1
1,1-Dichloropropene	ND	0.200	0.046	ND	0.908	0.207		1
Benzene	ND	0.200	0.049	ND	0.639	0.156		1
Carbon tetrachloride	ND	0.200	0.050	ND	1.26	0.314		1
Cyclohexane	ND	0.200	0.037	ND	0.688	0.127		1
tert-Amyl Methyl Ether	ND	0.200	0.048	ND	0.836	0.199		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	0.056	ND	1.42	0.400		1
1,2-Dichloropropane	ND	0.200	0.061	ND	0.924	0.282		1
Bromodichloromethane	ND	0.200	0.050	ND	1.34	0.338		1
1,4-Dioxane	ND	0.200	0.081	ND	0.721	0.290		1
Trichloroethene	ND	0.200	0.051	ND	1.07	0.271		1
2,2,4-Trimethylpentane	ND	0.200	0.036	ND	0.934	0.169		1
Methyl Methacrylate	ND	0.500	0.070	ND	2.05	0.285		1
Heptane	ND	0.200	0.047	ND	0.820	0.193		1
cis-1,3-Dichloropropene	ND	0.200	0.041	ND	0.908	0.186		1
4-Methyl-2-pentanone	ND	0.500	0.042	ND	2.05	0.173		1
trans-1,3-Dichloropropene	ND	0.200	0.044	ND	0.908	0.198		1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.366		1
Toluene	ND	0.200	0.052	ND	0.754	0.196		1
1,3-Dichloropropane	ND	0.200	0.106	ND	0.924	0.490		1
2-Hexanone	ND	0.200	0.065	ND	0.820	0.266		1
Dibromochloromethane	ND	0.200	0.061	ND	1.70	0.523		1
1,2-Dibromoethane	ND	0.200	0.056	ND	1.54	0.431		1
Butyl acetate	ND	0.500	0.126	ND	2.38	0.599		1
Octane	ND	0.200	0.045	ND	0.934	0.208		1
Tetrachloroethene	ND	0.200	0.066	ND	1.36	0.444		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.056	ND	1.37	0.385		1
Chlorobenzene	ND	0.200	0.062	ND	0.921	0.287		1
Ethylbenzene	ND	0.200	0.043	ND	0.869	0.188		1
p/m-Xylene	ND	0.400	0.091	ND	1.74	0.395		1
Bromoform	ND	0.200	0.064	ND	2.07	0.663		1
Styrene	ND	0.200	0.043	ND	0.852	0.185		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.061	ND	1.37	0.422		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	0.045	ND	0.869	0.197		1
1,2,3-Trichloropropane	ND	0.200	0.061	ND	1.21	0.368		1
Nonane	ND	0.200	0.046	ND	1.05	0.243		1
Isopropylbenzene	ND	0.200	0.049	ND	0.983	0.241		1
Bromobenzene	ND	0.200	0.061	ND	0.793	0.243		1
2-Chlorotoluene	ND	0.200	0.049	ND	1.04	0.252		1
n-Propylbenzene	ND	0.200	0.042	ND	0.983	0.206		1
4-Chlorotoluene	ND	0.200	0.056	ND	1.04	0.290		1
4-Ethyltoluene	ND	0.200	0.037	ND	0.983	0.182		1
1,3,5-Trimethylbenzene	ND	0.200	0.068	ND	0.983	0.332		1
tert-Butylbenzene	ND	0.200	0.042	ND	1.10	0.231		1
1,2,4-Trimethylbenzene	ND	0.200	0.037	ND	0.983	0.181		1
Decane	ND	0.200	0.040	ND	1.16	0.235		1
Benzyl chloride	ND	0.200	0.048	ND	1.04	0.250		1
1,3-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.377		1
1,4-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.382		1
sec-Butylbenzene	ND	0.200	0.043	ND	1.10	0.235		1
p-Isopropyltoluene	ND	0.200	0.052	ND	1.10	0.285		1
1,2-Dichlorobenzene	ND	0.200	0.063	ND	1.20	0.378		1
n-Butylbenzene	ND	0.200	0.044	ND	1.10	0.242		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.050	ND	1.93	0.478		1
Undecane	ND	0.200	0.043	ND	1.28	0.273		1
Dodecane	ND	0.200	0.066	ND	1.39	0.458		1
1,2,4-Trichlorobenzene	ND	0.200	0.067	ND	1.48	0.500		1
Naphthalene	ND	0.200	0.089	ND	1.05	0.464		1
1,2,3-Trichlorobenzene	ND	0.200	0.072	ND	1.48	0.531		1
Hexachlorobutadiene	ND	0.200	0.053	ND	2.13	0.564		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/18/22 20:56
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	0.018	ND	0.989	0.089		1
Chloromethane	ND	0.200	0.024	ND	0.413	0.050		1
Freon-114	ND	0.050	0.007	ND	0.349	0.050		1
Vinyl chloride	ND	0.020	0.007	ND	0.051	0.018		1
1,3-Butadiene	ND	0.020	0.010	ND	0.044	0.022		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.033		1
Chloroethane	ND	0.100	0.014	ND	0.264	0.036		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.299	ND	2.38	0.710		1
Trichlorofluoromethane	ND	0.050	0.010	ND	0.281	0.053		1
Acrylonitrile	ND	0.500	0.025	ND	1.09	0.053		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.033		1
Methylene chloride	ND	0.500	0.013	ND	1.74	0.046		1
Freon-113	ND	0.050	0.009	ND	0.383	0.067		1
trans-1,2-Dichloroethene	ND	0.020	0.008	ND	0.079	0.030		1
1,1-Dichloroethane	ND	0.020	0.007	ND	0.081	0.030		1
Methyl tert butyl ether	ND	0.200	0.008	ND	0.721	0.030		1
2-Butanone	ND	0.500	0.027	ND	1.47	0.080		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.038		1
Chloroform	ND	0.020	0.009	ND	0.098	0.044		1
1,2-Dichloroethane	ND	0.020	0.010	ND	0.081	0.039		1
1,1,1-Trichloroethane	ND	0.020	0.008	ND	0.109	0.045		1
Benzene	ND	0.100	0.005	ND	0.319	0.016		1
Carbon tetrachloride	ND	0.020	0.010	ND	0.126	0.063		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2226183

Project Number: CANISTER QC BAT **Report Date:** 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	0.005	ND	0.092	0.025		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.045		1
1,4-Dioxane	ND	0.100	0.032	ND	0.360	0.115		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.033		1
cis-1,3-Dichloropropene	ND	0.020	0.007	ND	0.091	0.032		1
4-Methyl-2-pentanone	ND	0.500	0.012	ND	2.05	0.049		1
trans-1,3-Dichloropropene	ND	0.020	0.007	ND	0.091	0.032		1
1,1,2-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Toluene	ND	0.100	0.014	ND	0.377	0.053		1
Dibromochloromethane	ND	0.020	0.009	ND	0.170	0.073		1
1,2-Dibromoethane	ND	0.020	0.008	ND	0.154	0.062		1
Tetrachloroethene	ND	0.020	0.008	ND	0.136	0.053		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.005	ND	0.137	0.036		1
Chlorobenzene	ND	0.100	0.006	ND	0.461	0.030		1
Ethylbenzene	ND	0.020	0.005	ND	0.087	0.021		1
p/m-Xylene	ND	0.040	0.019	ND	0.174	0.083		1
Bromoform	ND	0.020	0.007	ND	0.207	0.067		1
Styrene	ND	0.020	0.005	ND	0.085	0.021		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.006	ND	0.137	0.039		1
o-Xylene	ND	0.020	0.007	ND	0.087	0.029		1
Isopropylbenzene	ND	0.200	0.005	ND	0.983	0.026		1
4-Ethyltoluene	ND	0.020	0.004	ND	0.098	0.021		1
1,3,5-Trimethybenzene	ND	0.020	0.006	ND	0.098	0.028		1
1,2,4-Trimethylbenzene	ND	0.020	0.004	ND	0.098	0.021		1
Benzyl chloride	ND	0.100	0.007	ND	0.518	0.037		1
1,3-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.034		1
1,4-Dichlorobenzene	ND	0.020	0.005	ND	0.120	0.032		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2226183
Report Date: 06/17/22

Air Canister Certification Results

Lab ID: L2226183-02
Client ID: CAN 377 SHELF 7
Sample Location:

Date Collected: 05/17/22 18:00
Date Received: 05/18/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	0.003	ND	1.10	0.018		1
p-Isopropyltoluene	ND	0.200	0.005	ND	1.10	0.025		1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.059		1
n-Butylbenzene	ND	0.200	0.005	ND	1.10	0.026		1
1,2,4-Trichlorobenzene	ND	0.050	0.030	ND	0.371	0.223		1
Naphthalene	ND	0.050	0.035	ND	0.262	0.184		1
1,2,3-Trichlorobenzene	ND	0.050	0.013	ND	0.371	0.100		1
Hexachlorobutadiene	ND	0.050	0.017	ND	0.533	0.181		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	91		60-140

Project Name: ALLIANCE 51ST STREET
Project Number: 30108678

Lab Number: L2227668
Report Date: 06/17/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2227668-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2227668-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2227668-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2227668-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2227668-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2227668-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2227668-07A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2227668
Project Number:	30108678	**Report Date:**	06/17/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2227668
Project Number:	30108678	**Report Date:**	06/17/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ALLIANCE 51ST STREET	**Lab Number:**	L2227668
Project Number:	30108678	**Report Date:**	06/17/22

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 5/26/22

ALPHA Job #: L2227668

Client Information

Client: Arcadis
Address: 1 Harried Way Ste 5
Hillsborough NJ
Phone: 908-326-1400
Fax: Email: Matt.Hilinski@arcadis.com
Email: Larry.Grant@arcadis.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alliance 51st Street
Project Location: Phila PA
Project #: 30108678
Project Manager: Larry Grant
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments: PADEP TO-15 list

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15 – PADEP LIST	TO-15 SIM	APH Subject Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
27668-01	SG-1	5/25/22	722	738	-30.34	-4.93	SV	AH	3.7	364	01135	X					
02	SG-2		740	803	-30.18	-4.91			2.7	346	0376	X					
03	SG-3		837	854	-30.01	-4.99				0374	01167	X					
04	SG-4		905	921	-29.84	-1.02				2079	0947	X					
05	SG-5		944	1006	-30.11	-4.37				3159	01462	X					
06	SG-6		1024	1038	-28.24	-4.74				5337	0157	X					
07	SG-7		1054	1110	-30.01	-4.86				403	CK78	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: CS

Relinquished By:	Date/Time	Received By:	Date/Time:
5/26/22 0330			
Matt Hilinski	5/25/22 1158		5/25/22 1158
	5/25/22 2100		5/25/22 2100
	5/25/22		5/25/22 2358

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

PADEP Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Glorinés Suárez Rivera
Pennsylvania Dept of Env Protection
2 East Main Street
Norristown, Pennsylvania 19401

Generated 7/26/2024 8:44:37 AM

JOB DESCRIPTION

DEP 51st

JOB NUMBER

410-180859-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by
Kerri Sachtleben, Client Services Group Leader
Kerri.Sachtleben@et.eurofinsus.com
(717)556-7376

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
^c	CCV Recovery is outside acceptance limits.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Analyte was found in the blank.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
!	Laboratory is not accredited for this parameter.
cn	Refer to Case Narrative for further detail

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-180859-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 7/22/2024 4:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 11.0°C and 14.5°C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample Preservation. This does not meet regulatory requirements. The client stated that any samples without a preservation code were unpreserved.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 410-531308 recovered outside acceptance criteria, low biased, for 2-Butanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-532050 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane, 2-Hexanone, 4-Methyl-2-pentanone and Methyl acetate. A reporting limit (RL) standard was analyzed and non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-532050 recovered above the upper control limit for Acetone, Bromomethane and Chloroethane. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: DEP51-S7 (410-180859-7) and DUP-S (410-180859-8). Elevated reporting limits (RLs) are provided.

Method 8260D: Internal standard (ISTD) response for the following samples were outside control limits: DEP51-S6 (410-180859-6), DEP51-S8 (410-180859-9), DEP51-S9 (410-180859-10) and DEP51-S10 (410-180859-11). The sample(s) was re-extracted and/or re-analyzed and ISTD response was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 7196A: The following samples were diluted due to the nature of the sample matrix: DEP51-S4 (410-180859-4), DEP51-S5 (410-180859-5), DEP51-S6 (410-180859-6), DEP51-S9 (410-180859-10) and DEP51-S11 (410-180859-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Client Sample ID: DEP51-S1 — Lab Sample ID: 410-180859-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8200		14	6.7	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.31		0.14	0.054	mg/Kg	2	☼	6020B	Total/NA
Arsenic	4.4		0.27	0.090	mg/Kg	2	☼	6020B	Total/NA
Barium	86	B ^2	0.27	0.12	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.37		0.068	0.016	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.19		0.068	0.027	mg/Kg	2	☼	6020B	Total/NA
Calcium	38000		140	66	mg/Kg	10	☼	6020B	Total/NA
Chromium	640		14	6.4	mg/Kg	100	☼	6020B	Total/NA
Cobalt	9.5		0.14	0.054	mg/Kg	2	☼	6020B	Total/NA
Copper	16		0.27	0.12	mg/Kg	2	☼	6020B	Total/NA
Iron	16000		68	31	mg/Kg	10	☼	6020B	Total/NA
Lead	44		0.68	0.26	mg/Kg	10	☼	6020B	Total/NA
Magnesium	5700		6.8	3.3	mg/Kg	2	☼	6020B	Total/NA
Manganese	300		0.27	0.14	mg/Kg	2	☼	6020B	Total/NA
Nickel	34		0.27	0.13	mg/Kg	2	☼	6020B	Total/NA
Potassium	3200		27	11	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.13	J	0.27	0.068	mg/Kg	2	☼	6020B	Total/NA
Silver	0.035	J	0.068	0.027	mg/Kg	2	☼	6020B	Total/NA
Sodium	95		34	16	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.17		0.068	0.026	mg/Kg	2	☼	6020B	Total/NA
Vanadium	32		0.54	0.14	mg/Kg	2	☼	6020B	Total/NA
Zinc	140	^2	100	14	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.062		0.056	0.019	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	15		0.43	0.14	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	620	!	0.010	0.0035	mg/Kg	1	☼	7199 CR3	Total/NA

Client Sample ID: DEP51-S2 — Lab Sample ID: 410-180859-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	4.5	J	16	3.2	ug/Kg	1	☼	8260D	Total/NA
Acetone	61		32	9.6	ug/Kg	1	☼	8260D	Total/NA
Methyl acetate	1.6	J	8.0	1.6	ug/Kg	1	☼	8260D	Total/NA
Aluminum	9500		16	8.0	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.34		0.16	0.064	mg/Kg	2	☼	6020B	Total/NA
Arsenic	5.7		0.32	0.11	mg/Kg	2	☼	6020B	Total/NA
Barium	97	B ^2	0.32	0.15	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.44		0.081	0.019	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.23		0.081	0.032	mg/Kg	2	☼	6020B	Total/NA
Calcium	28000		160	79	mg/Kg	10	☼	6020B	Total/NA
Chromium	760		16	7.7	mg/Kg	100	☼	6020B	Total/NA
Cobalt	11		0.16	0.064	mg/Kg	2	☼	6020B	Total/NA
Copper	21		0.32	0.15	mg/Kg	2	☼	6020B	Total/NA
Iron	17000		81	37	mg/Kg	10	☼	6020B	Total/NA
Lead	66		0.81	0.31	mg/Kg	10	☼	6020B	Total/NA
Magnesium	6100		8.1	3.9	mg/Kg	2	☼	6020B	Total/NA
Manganese	310		0.32	0.16	mg/Kg	2	☼	6020B	Total/NA
Nickel	42		0.32	0.15	mg/Kg	2	☼	6020B	Total/NA
Potassium	3700		32	13	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.14	J	0.32	0.081	mg/Kg	2	☼	6020B	Total/NA
Silver	0.11		0.081	0.033	mg/Kg	2	☼	6020B	Total/NA
Sodium	120		40	19	mg/Kg	2	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP51-S2 (Continued)

Lab Sample ID: 410-180859-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.21		0.081	0.032	mg/Kg	2	☼	6020B	Total/NA
Vanadium	35		0.64	0.16	mg/Kg	2	☼	6020B	Total/NA
Zinc	200	^2	120	16	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.053	J	0.062	0.021	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	10		0.47	0.16	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	750	!	0.011	0.0037	mg/Kg	1	☼	7199 CR3	Total/NA

Client Sample ID: DEP51-S3

Lab Sample ID: 410-180859-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	17000		19	9.6	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.53		0.19	0.077	mg/Kg	2	☼	6020B	Total/NA
Arsenic	9.8		0.39	0.13	mg/Kg	2	☼	6020B	Total/NA
Barium	160	B	0.39	0.18	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.76		0.097	0.023	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.41		0.097	0.039	mg/Kg	2	☼	6020B	Total/NA
Calcium	49000		190	95	mg/Kg	10	☼	6020B	Total/NA
Chromium	1400		19	9.2	mg/Kg	100	☼	6020B	Total/NA
Cobalt	18	^2	0.19	0.077	mg/Kg	2	☼	6020B	Total/NA
Copper	41		0.39	0.17	mg/Kg	2	☼	6020B	Total/NA
Iron	30000		97	45	mg/Kg	10	☼	6020B	Total/NA
Lead	110		0.19	0.073	mg/Kg	2	☼	6020B	Total/NA
Magnesium	9600		9.7	4.7	mg/Kg	2	☼	6020B	Total/NA
Manganese	530		0.39	0.19	mg/Kg	2	☼	6020B	Total/NA
Nickel	66		0.39	0.18	mg/Kg	2	☼	6020B	Total/NA
Potassium	6800		39	15	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.33	J	0.39	0.097	mg/Kg	2	☼	6020B	Total/NA
Silver	0.11		0.097	0.039	mg/Kg	2	☼	6020B	Total/NA
Sodium	170		48	23	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.37		0.097	0.038	mg/Kg	2	☼	6020B	Total/NA
Vanadium	62		0.77	0.19	mg/Kg	2	☼	6020B	Total/NA
Zinc	310		150	19	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.13		0.061	0.020	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	38		4.6	1.5	mg/Kg	10	☼	7196A	Total/NA
Cr (III)	1400	!	0.010	0.0037	mg/Kg	1	☼	7199 CR3	Total/NA

Client Sample ID: DEP51-S4

Lab Sample ID: 410-180859-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	25		23	4.6	ug/Kg	1	☼	8260D	Total/NA
Acetone	270		46	14	ug/Kg	1	☼	8260D	Total/NA
Carbon disulfide	2.2	J	12	1.9	ug/Kg	1	☼	8260D	Total/NA
Toluene	2.4	J	12	2.3	ug/Kg	1	☼	8260D	Total/NA
Aluminum	14000		17	8.6	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.65		0.17	0.069	mg/Kg	2	☼	6020B	Total/NA
Arsenic	8.2		0.35	0.12	mg/Kg	2	☼	6020B	Total/NA
Barium	140	B ^2	0.35	0.16	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.63		0.087	0.021	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.41		0.087	0.035	mg/Kg	2	☼	6020B	Total/NA
Calcium	29000		170	85	mg/Kg	10	☼	6020B	Total/NA
Chromium	810		17	8.2	mg/Kg	100	☼	6020B	Total/NA
Cobalt	14		0.17	0.069	mg/Kg	2	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP51-S4 (Continued)

Lab Sample ID: 410-180859-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	42		0.35	0.16	mg/Kg	2	☼	6020B	Total/NA
Iron	29000		87	40	mg/Kg	10	☼	6020B	Total/NA
Lead	230		0.87	0.33	mg/Kg	10	☼	6020B	Total/NA
Magnesium	9100		8.7	4.2	mg/Kg	2	☼	6020B	Total/NA
Manganese	500		0.35	0.17	mg/Kg	2	☼	6020B	Total/NA
Nickel	49		0.35	0.16	mg/Kg	2	☼	6020B	Total/NA
Potassium	4500		35	14	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.30	J	0.35	0.087	mg/Kg	2	☼	6020B	Total/NA
Silver	0.12		0.087	0.035	mg/Kg	2	☼	6020B	Total/NA
Sodium	210		43	21	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.29		0.087	0.034	mg/Kg	2	☼	6020B	Total/NA
Vanadium	44		0.69	0.17	mg/Kg	2	☼	6020B	Total/NA
Zinc	310	^2	130	17	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.098		0.062	0.021	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	810	!	0.010	0.0036	mg/Kg	1	☼	7199 CR3	Total/NA

Client Sample ID: DEP51-S5

Lab Sample ID: 410-180859-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	32		21	4.2	ug/Kg	1	☼	8260D	Total/NA
Acetone	440		42	13	ug/Kg	1	☼	8260D	Total/NA
Toluene	2.8	J	10	2.1	ug/Kg	1	☼	8260D	Total/NA
Aluminum	9200		21	10	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.49		0.21	0.084	mg/Kg	2	☼	6020B	Total/NA
Arsenic	5.0		0.42	0.14	mg/Kg	2	☼	6020B	Total/NA
Barium	110	B	0.42	0.19	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.42		0.11	0.025	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.28		0.11	0.042	mg/Kg	2	☼	6020B	Total/NA
Calcium	10000		42	21	mg/Kg	2	☼	6020B	Total/NA
Chromium	330		2.1	1.0	mg/Kg	10	☼	6020B	Total/NA
Cobalt	9.7	^2	0.21	0.084	mg/Kg	2	☼	6020B	Total/NA
Copper	26		0.42	0.19	mg/Kg	2	☼	6020B	Total/NA
Iron	19000		110	49	mg/Kg	10	☼	6020B	Total/NA
Lead	460		1.1	0.40	mg/Kg	10	☼	6020B	Total/NA
Magnesium	6200		11	5.2	mg/Kg	2	☼	6020B	Total/NA
Manganese	340		0.42	0.21	mg/Kg	2	☼	6020B	Total/NA
Nickel	28		0.42	0.20	mg/Kg	2	☼	6020B	Total/NA
Potassium	4600		42	17	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.17	J	0.42	0.11	mg/Kg	2	☼	6020B	Total/NA
Silver	0.056	J	0.11	0.043	mg/Kg	2	☼	6020B	Total/NA
Sodium	220		53	25	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.23		0.11	0.041	mg/Kg	2	☼	6020B	Total/NA
Vanadium	30		0.84	0.21	mg/Kg	2	☼	6020B	Total/NA
Zinc	280		160	21	mg/Kg	10	☼	6020B	Total/NA
Cr (III)	330	!	0.013	0.0046	mg/Kg	1	☼	7199 CR3	Total/NA

Client Sample ID: DEP51-S6

Lab Sample ID: 410-180859-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	9.7	J cn	15	2.9	ug/Kg	1	☼	8260D	Total/NA
Acetone	100	cn	29	8.8	ug/Kg	1	☼	8260D	Total/NA
Benzene	3.0	J cn	7.4	1.2	ug/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP51-S6 (Continued)

Lab Sample ID: 410-180859-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	3.4	J cn	7.4	1.2	ug/Kg	1	☼	8260D	Total/NA
Toluene	2.7	J cn	7.4	1.5	ug/Kg	1	☼	8260D	Total/NA
Aluminum	7400		20	10	mg/Kg	2	☼	6020B	Total/NA
Antimony	1.9		0.20	0.082	mg/Kg	2	☼	6020B	Total/NA
Arsenic	12		0.41	0.14	mg/Kg	2	☼	6020B	Total/NA
Barium	130	B	0.41	0.19	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.49		0.10	0.024	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.59		0.10	0.041	mg/Kg	2	☼	6020B	Total/NA
Calcium	13000		41	20	mg/Kg	2	☼	6020B	Total/NA
Chromium	250		2.0	0.97	mg/Kg	10	☼	6020B	Total/NA
Cobalt	11	^2	0.20	0.082	mg/Kg	2	☼	6020B	Total/NA
Copper	88		0.41	0.18	mg/Kg	2	☼	6020B	Total/NA
Iron	58000		100	47	mg/Kg	10	☼	6020B	Total/NA
Lead	270		1.0	0.39	mg/Kg	10	☼	6020B	Total/NA
Magnesium	3500		10	5.0	mg/Kg	2	☼	6020B	Total/NA
Manganese	480		0.41	0.20	mg/Kg	2	☼	6020B	Total/NA
Nickel	33		0.41	0.19	mg/Kg	2	☼	6020B	Total/NA
Potassium	2100		41	16	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.53		0.41	0.10	mg/Kg	2	☼	6020B	Total/NA
Silver	0.16		0.10	0.041	mg/Kg	2	☼	6020B	Total/NA
Sodium	140		51	24	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.19		0.10	0.040	mg/Kg	2	☼	6020B	Total/NA
Vanadium	27		0.82	0.20	mg/Kg	2	☼	6020B	Total/NA
Zinc	210		150	20	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.25		0.084	0.028	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	250	!	0.014	0.0050	mg/Kg	1	☼	7199 CR3	Total/NA

Client Sample ID: DEP51-S7

Lab Sample ID: 410-180859-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl acetate	210	J ^c cn	500	99	ug/Kg	50	☼	8260D	Total/NA
Aluminum	13000		24	12	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.79		0.24	0.096	mg/Kg	2	☼	6020B	Total/NA
Arsenic	10		0.48	0.16	mg/Kg	2	☼	6020B	Total/NA
Barium	120	B	0.48	0.22	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.66		0.12	0.029	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.45		0.12	0.048	mg/Kg	2	☼	6020B	Total/NA
Calcium	26000		240	120	mg/Kg	10	☼	6020B	Total/NA
Chromium	1100		2.4	1.1	mg/Kg	10	☼	6020B	Total/NA
Cobalt	14	^2	0.24	0.096	mg/Kg	2	☼	6020B	Total/NA
Copper	45		0.48	0.22	mg/Kg	2	☼	6020B	Total/NA
Iron	28000		120	55	mg/Kg	10	☼	6020B	Total/NA
Lead	200		0.24	0.091	mg/Kg	2	☼	6020B	Total/NA
Magnesium	7700		12	5.9	mg/Kg	2	☼	6020B	Total/NA
Manganese	460		0.48	0.24	mg/Kg	2	☼	6020B	Total/NA
Nickel	60		0.48	0.23	mg/Kg	2	☼	6020B	Total/NA
Potassium	4000		48	19	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.32	J	0.48	0.12	mg/Kg	2	☼	6020B	Total/NA
Silver	0.13		0.12	0.049	mg/Kg	2	☼	6020B	Total/NA
Sodium	230		60	29	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.25		0.12	0.047	mg/Kg	2	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP51-S7 (Continued)

Lab Sample ID: 410-180859-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	49		0.96	0.24	mg/Kg	2	☼	6020B	Total/NA
Zinc	360		180	24	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.11		0.077	0.026	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	77		2.9	0.96	mg/Kg	5	☼	7196A	Total/NA
Cr (III)	980	!	0.014	0.0049	mg/Kg	1	☼	7199 CR3	Total/NA

Client Sample ID: DUP-S

Lab Sample ID: 410-180859-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	180	J cn	510	51	ug/Kg	50	☼	8260D	Total/NA
Ethylbenzene	47	J cn	510	41	ug/Kg	50	☼	8260D	Total/NA
Methyl acetate	120	J ^c cn	510	100	ug/Kg	50	☼	8260D	Total/NA
Methylcyclohexane	460	J cn	510	62	ug/Kg	50	☼	8260D	Total/NA
Toluene	130	J cn	510	62	ug/Kg	50	☼	8260D	Total/NA
Xylenes, Total	390	J cn	510	140	ug/Kg	50	☼	8260D	Total/NA
Aluminum	9100		24	12	mg/Kg	2	☼	6020B	Total/NA
Antimony	2.5		0.24	0.096	mg/Kg	2	☼	6020B	Total/NA
Arsenic	13		0.48	0.16	mg/Kg	2	☼	6020B	Total/NA
Barium	160	B	0.48	0.22	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.59		0.12	0.029	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.66		0.12	0.048	mg/Kg	2	☼	6020B	Total/NA
Calcium	15000		48	24	mg/Kg	2	☼	6020B	Total/NA
Chromium	380		2.4	1.1	mg/Kg	10	☼	6020B	Total/NA
Cobalt	11	^2	0.24	0.096	mg/Kg	2	☼	6020B	Total/NA
Copper	110		0.48	0.22	mg/Kg	2	☼	6020B	Total/NA
Iron	44000		120	55	mg/Kg	10	☼	6020B	Total/NA
Lead	330		1.2	0.46	mg/Kg	10	☼	6020B	Total/NA
Magnesium	4200		12	5.9	mg/Kg	2	☼	6020B	Total/NA
Manganese	450		0.48	0.24	mg/Kg	2	☼	6020B	Total/NA
Nickel	37		0.48	0.23	mg/Kg	2	☼	6020B	Total/NA
Potassium	2500		48	19	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.68		0.48	0.12	mg/Kg	2	☼	6020B	Total/NA
Silver	0.18		0.12	0.049	mg/Kg	2	☼	6020B	Total/NA
Sodium	170		60	29	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.23		0.12	0.047	mg/Kg	2	☼	6020B	Total/NA
Vanadium	33		0.96	0.24	mg/Kg	2	☼	6020B	Total/NA
Zinc	290		180	24	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.27		0.074	0.025	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	28		5.8	1.9	mg/Kg	10	☼	7196A	Total/NA
Cr (III)	350	!	0.013	0.0047	mg/Kg	1	☼	7199 CR3	Total/NA

Client Sample ID: DEP51-S8

Lab Sample ID: 410-180859-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	40	cn	32	9.6	ug/Kg	1	☼	8260D	Total/NA
Carbon disulfide	1.3	J cn	8.0	1.3	ug/Kg	1	☼	8260D	Total/NA
Methyl acetate	14	cn	8.0	1.6	ug/Kg	1	☼	8260D	Total/NA
Aluminum	12000		23	11	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.92		0.23	0.092	mg/Kg	2	☼	6020B	Total/NA
Arsenic	9.9		0.46	0.15	mg/Kg	2	☼	6020B	Total/NA
Barium	130	B	0.46	0.21	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.64		0.11	0.027	mg/Kg	2	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP51-S8 (Continued)

Lab Sample ID: 410-180859-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.43		0.11	0.046	mg/Kg	2	☼	6020B	Total/NA
Calcium	23000		230	110	mg/Kg	10	☼	6020B	Total/NA
Chromium	870		2.3	1.1	mg/Kg	10	☼	6020B	Total/NA
Cobalt	14		0.23	0.092	mg/Kg	2	☼	6020B	Total/NA
Copper	62		0.46	0.21	mg/Kg	2	☼	6020B	Total/NA
Iron	25000		110	53	mg/Kg	10	☼	6020B	Total/NA
Lead	200		0.23	0.087	mg/Kg	2	☼	6020B	Total/NA
Magnesium	6900		11	5.6	mg/Kg	2	☼	6020B	Total/NA
Manganese	560		0.46	0.23	mg/Kg	2	☼	6020B	Total/NA
Nickel	48		0.46	0.22	mg/Kg	2	☼	6020B	Total/NA
Potassium	3800		46	18	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.46		0.46	0.11	mg/Kg	2	☼	6020B	Total/NA
Silver	0.12		0.11	0.047	mg/Kg	2	☼	6020B	Total/NA
Sodium	240		57	28	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.27		0.11	0.045	mg/Kg	2	☼	6020B	Total/NA
Vanadium	46		0.92	0.23	mg/Kg	2	☼	6020B	Total/NA
Zinc	290		170	23	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.15		0.090	0.030	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	54		3.4	1.1	mg/Kg	5	☼	7196A	Total/NA
Cr (III)	820	!	0.016	0.0056	mg/Kg	1	☼	7199 CR3	Total/NA

Client Sample ID: DEP51-S9

Lab Sample ID: 410-180859-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	11	J cn	17	3.4	ug/Kg	1	☼	8260D	Total/NA
Acetone	95	cn	34	10	ug/Kg	1	☼	8260D	Total/NA
Benzene	1.5	J cn	8.5	1.4	ug/Kg	1	☼	8260D	Total/NA
Carbon disulfide	2.9	J cn	8.5	1.4	ug/Kg	1	☼	8260D	Total/NA
Toluene	2.5	J cn	8.5	1.7	ug/Kg	1	☼	8260D	Total/NA
Aluminum	15000		22	11	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.65		0.22	0.090	mg/Kg	2	☼	6020B	Total/NA
Arsenic	8.6		0.45	0.15	mg/Kg	2	☼	6020B	Total/NA
Barium	150	B	0.45	0.21	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.82		0.11	0.027	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.61		0.11	0.045	mg/Kg	2	☼	6020B	Total/NA
Calcium	22000		220	110	mg/Kg	10	☼	6020B	Total/NA
Chromium	820		2.2	1.1	mg/Kg	10	☼	6020B	Total/NA
Cobalt	16	^2	0.22	0.090	mg/Kg	2	☼	6020B	Total/NA
Copper	48		0.45	0.20	mg/Kg	2	☼	6020B	Total/NA
Iron	28000		110	52	mg/Kg	10	☼	6020B	Total/NA
Lead	380		1.1	0.43	mg/Kg	10	☼	6020B	Total/NA
Magnesium	8200		11	5.5	mg/Kg	2	☼	6020B	Total/NA
Manganese	620		0.45	0.22	mg/Kg	2	☼	6020B	Total/NA
Nickel	53		0.45	0.21	mg/Kg	2	☼	6020B	Total/NA
Potassium	4100		45	18	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.46		0.45	0.11	mg/Kg	2	☼	6020B	Total/NA
Silver	0.18		0.11	0.046	mg/Kg	2	☼	6020B	Total/NA
Sodium	200		56	27	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.29		0.11	0.044	mg/Kg	2	☼	6020B	Total/NA
Vanadium	47		0.90	0.22	mg/Kg	2	☼	6020B	Total/NA
Zinc	430		170	22	mg/Kg	10	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP51-S9 (Continued)

Lab Sample ID: 410-180859-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.12		0.076	0.025	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	820	!	0.013	0.0047	mg/Kg	1	☼	7199 CR3	Total/NA

Client Sample ID: DEP51-S10

Lab Sample ID: 410-180859-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	20	cn	18	3.5	ug/Kg	1	☼	8260D	Total/NA
Acetone	210	cn	35	11	ug/Kg	1	☼	8260D	Total/NA
Carbon disulfide	1.9	J cn	8.8	1.4	ug/Kg	1	☼	8260D	Total/NA
Aluminum	21000		27	13	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.81		0.27	0.11	mg/Kg	2	☼	6020B	Total/NA
Arsenic	14		0.54	0.18	mg/Kg	2	☼	6020B	Total/NA
Barium	150	B	0.54	0.25	mg/Kg	2	☼	6020B	Total/NA
Beryllium	1.4		0.14	0.032	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.52		0.14	0.054	mg/Kg	2	☼	6020B	Total/NA
Calcium	43000		270	130	mg/Kg	10	☼	6020B	Total/NA
Chromium	940		2.7	1.3	mg/Kg	10	☼	6020B	Total/NA
Cobalt	19	^2	0.27	0.11	mg/Kg	2	☼	6020B	Total/NA
Copper	61		0.54	0.24	mg/Kg	2	☼	6020B	Total/NA
Iron	36000		140	62	mg/Kg	10	☼	6020B	Total/NA
Lead	170		0.27	0.10	mg/Kg	2	☼	6020B	Total/NA
Magnesium	24000		14	6.6	mg/Kg	2	☼	6020B	Total/NA
Manganese	850		0.54	0.27	mg/Kg	2	☼	6020B	Total/NA
Nickel	62		0.54	0.26	mg/Kg	2	☼	6020B	Total/NA
Potassium	5100		54	22	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.56		0.54	0.14	mg/Kg	2	☼	6020B	Total/NA
Silver	0.19		0.14	0.055	mg/Kg	2	☼	6020B	Total/NA
Sodium	1600		68	32	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.40		0.14	0.053	mg/Kg	2	☼	6020B	Total/NA
Vanadium	86		1.1	0.27	mg/Kg	2	☼	6020B	Total/NA
Zinc	340		200	27	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.24		0.091	0.030	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	53		6.9	2.3	mg/Kg	10	☼	7196A	Total/NA
Cr (III)	880	!	0.016	0.0056	mg/Kg	1	☼	7199 CR3	Total/NA

Client Sample ID: DEP51-S11

Lab Sample ID: 410-180859-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	21		21	4.2	ug/Kg	1	☼	8260D	Total/NA
Acetone	210		42	13	ug/Kg	1	☼	8260D	Total/NA
Benzene	3.1	J	10	1.7	ug/Kg	1	☼	8260D	Total/NA
Toluene	12		10	2.1	ug/Kg	1	☼	8260D	Total/NA
Aluminum	13000		23	11	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.82		0.23	0.091	mg/Kg	2	☼	6020B	Total/NA
Arsenic	7.0		0.45	0.15	mg/Kg	2	☼	6020B	Total/NA
Barium	110	B	0.45	0.21	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.75		0.11	0.027	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.47		0.11	0.045	mg/Kg	2	☼	6020B	Total/NA
Calcium	7200		45	22	mg/Kg	2	☼	6020B	Total/NA
Chromium	100		0.45	0.22	mg/Kg	2	☼	6020B	Total/NA
Cobalt	10	^2	0.23	0.091	mg/Kg	2	☼	6020B	Total/NA
Copper	46		0.45	0.20	mg/Kg	2	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP51-S11 (Continued) — Lab Sample ID: 410-180859-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	23000		110	52	mg/Kg	10	☼	6020B	Total/NA
Lead	170		0.23	0.086	mg/Kg	2	☼	6020B	Total/NA
Magnesium	5400		11	5.6	mg/Kg	2	☼	6020B	Total/NA
Manganese	420		0.45	0.23	mg/Kg	2	☼	6020B	Total/NA
Nickel	21		0.45	0.22	mg/Kg	2	☼	6020B	Total/NA
Potassium	2500		45	18	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.50		0.45	0.11	mg/Kg	2	☼	6020B	Total/NA
Silver	0.26		0.11	0.046	mg/Kg	2	☼	6020B	Total/NA
Sodium	160		57	27	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.25		0.11	0.044	mg/Kg	2	☼	6020B	Total/NA
Vanadium	42		0.91	0.23	mg/Kg	2	☼	6020B	Total/NA
Zinc	250		170	23	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.16		0.069	0.023	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	100	!	0.012	0.0041	mg/Kg	1	☼	7199 CR3	Total/NA

Client Sample ID: DEP51-W1 — Lab Sample ID: 410-180859-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.52	J	1.0	0.21	ug/L	1		6020B	Dissolved
Arsenic	1.1	J	2.1	0.70	ug/L	1		6020B	Dissolved
Barium	44		2.1	0.77	ug/L	1		6020B	Dissolved
Calcium	32000		120	52	ug/L	1		6020B	Dissolved
Cobalt	0.24	J	0.52	0.16	ug/L	1		6020B	Dissolved
Copper	2.2		1.0	0.37	ug/L	1		6020B	Dissolved
Iron	36	J	52	21	ug/L	1		6020B	Dissolved
Magnesium	12000		52	16	ug/L	1		6020B	Dissolved
Manganese	6.3		2.1	0.98	ug/L	1		6020B	Dissolved
Nickel	1.4		1.0	0.41	ug/L	1		6020B	Dissolved
Potassium	4000		210	67	ug/L	1		6020B	Dissolved
Sodium	29000	^2	210	93	ug/L	1		6020B	Dissolved
Vanadium	1.3	J	4.1	0.82	ug/L	1		6020B	Dissolved

Client Sample ID: DUP-W — Lab Sample ID: 410-180859-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.55	J	1.0	0.21	ug/L	1		6020B	Dissolved
Arsenic	1.2	J	2.1	0.70	ug/L	1		6020B	Dissolved
Barium	44		2.1	0.77	ug/L	1		6020B	Dissolved
Calcium	32000		120	52	ug/L	1		6020B	Dissolved
Cobalt	0.43	J	0.52	0.16	ug/L	1		6020B	Dissolved
Copper	3.3		1.0	0.37	ug/L	1		6020B	Dissolved
Iron	33	J	52	21	ug/L	1		6020B	Dissolved
Lead	0.35	J	0.52	0.12	ug/L	1		6020B	Dissolved
Magnesium	12000		52	16	ug/L	1		6020B	Dissolved
Manganese	6.5		2.1	0.98	ug/L	1		6020B	Dissolved
Nickel	1.5		1.0	0.41	ug/L	1		6020B	Dissolved
Potassium	4000		210	67	ug/L	1		6020B	Dissolved
Selenium	0.29	J	1.0	0.29	ug/L	1		6020B	Dissolved
Sodium	29000	^2	210	93	ug/L	1		6020B	Dissolved
Vanadium	1.3	J	4.1	0.82	ug/L	1		6020B	Dissolved
Zinc	8.0	J	10	4.1	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Client Sample ID: DEP51-W2 — Lab Sample ID: 410-180859-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.5	J	5.0	0.30	ug/L	1		8260D	Total/NA
Antimony	0.47	J	1.0	0.21	ug/L	1		6020B	Dissolved
Arsenic	1.0	J	2.1	0.70	ug/L	1		6020B	Dissolved
Barium	43		2.1	0.77	ug/L	1		6020B	Dissolved
Calcium	33000		120	52	ug/L	1		6020B	Dissolved
Copper	2.0		1.0	0.37	ug/L	1		6020B	Dissolved
Magnesium	13000		52	16	ug/L	1		6020B	Dissolved
Manganese	5.6		2.1	0.98	ug/L	1		6020B	Dissolved
Nickel	0.92	J	1.0	0.41	ug/L	1		6020B	Dissolved
Potassium	4100		210	67	ug/L	1		6020B	Dissolved
Sodium	30000	^2	210	93	ug/L	1		6020B	Dissolved
Vanadium	1.1	J	4.1	0.82	ug/L	1		6020B	Dissolved
Zinc	4.5	J	10	4.1	ug/L	1		6020B	Dissolved

Client Sample ID: DEP51-W3 — Lab Sample ID: 410-180859-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.50	J	1.0	0.21	ug/L	1		6020B	Dissolved
Arsenic	0.96	J	2.1	0.70	ug/L	1		6020B	Dissolved
Barium	45		2.1	0.77	ug/L	1		6020B	Dissolved
Calcium	32000		120	52	ug/L	1		6020B	Dissolved
Copper	1.9		1.0	0.37	ug/L	1		6020B	Dissolved
Magnesium	13000		52	16	ug/L	1		6020B	Dissolved
Manganese	5.7		2.1	0.98	ug/L	1		6020B	Dissolved
Nickel	1.3		1.0	0.41	ug/L	1		6020B	Dissolved
Potassium	4000		210	67	ug/L	1		6020B	Dissolved
Selenium	0.31	J	1.0	0.29	ug/L	1		6020B	Dissolved
Sodium	29000	^2	210	93	ug/L	1		6020B	Dissolved
Vanadium	1.1	J	4.1	0.82	ug/L	1		6020B	Dissolved

Client Sample ID: DEP51-W4 — Lab Sample ID: 410-180859-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.42	J	1.0	0.21	ug/L	1		6020B	Dissolved
Arsenic	1.0	J	2.1	0.70	ug/L	1		6020B	Dissolved
Barium	44		2.1	0.77	ug/L	1		6020B	Dissolved
Calcium	32000		120	52	ug/L	1		6020B	Dissolved
Copper	2.1		1.0	0.37	ug/L	1		6020B	Dissolved
Iron	22	J	52	21	ug/L	1		6020B	Dissolved
Magnesium	12000		52	16	ug/L	1		6020B	Dissolved
Manganese	5.3		2.1	0.98	ug/L	1		6020B	Dissolved
Nickel	1.4		1.0	0.41	ug/L	1		6020B	Dissolved
Potassium	4000		210	67	ug/L	1		6020B	Dissolved
Sodium	30000	^2	210	93	ug/L	1		6020B	Dissolved
Vanadium	1.1	J	4.1	0.82	ug/L	1		6020B	Dissolved
Zinc	4.3	J	10	4.1	ug/L	1		6020B	Dissolved

Client Sample ID: Trip Blank 2 — Lab Sample ID: 410-180859-18

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Client Sample ID: Trip Blank 1 **Lab Sample ID: 410-180859-19**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Client Sample ID: DEP51-S1
Date Collected: 07/22/24 10:30
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-1
Matrix: Solid
Percent Solids: 99.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
1,1,2,2-Tetrachloroethane	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
1,1,2-Trichloroethane	ND		5.4	0.76	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
1,1-Dichloroethane	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
1,1-Dichloroethene	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
1,2,4-Trichlorobenzene	ND		11	5.4	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
1,2-Dibromo-3-Chloropropane	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
1,2-Dibromoethane	ND		5.4	0.76	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
1,2-Dichlorobenzene	ND		5.4	0.98	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
1,2-Dichloroethane	ND		5.4	0.65	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
1,2-Dichloropropane	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
1,3-Dichlorobenzene	ND		5.4	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
1,4-Dichlorobenzene	ND		5.4	0.98	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
2-Butanone	ND		11	2.2	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
2-Hexanone	ND		11	2.7	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
4-Methyl-2-pentanone	ND		11	2.2	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Acetone	ND		22	6.5	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Benzene	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Bromodichloromethane	ND		5.4	0.76	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Bromoform	ND		11	5.4	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Bromomethane	ND		5.4	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Carbon disulfide	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Carbon tetrachloride	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Chlorobenzene	ND		5.4	0.98	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Chloroethane	ND		5.4	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Chloroform	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Chloromethane	ND		5.4	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
cis-1,2-Dichloroethene	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
cis-1,3-Dichloropropene	ND		5.4	0.65	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Cyclohexane	ND		5.4	0.98	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Dibromochloromethane	ND		5.4	0.54	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Dichlorodifluoromethane	ND		5.4	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Ethylbenzene	ND		5.4	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Freon 113	ND		11	0.98	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Isopropylbenzene	ND		5.4	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Methyl acetate	ND		5.4	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Methyl tertiary butyl ether	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Methylcyclohexane	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Methylene Chloride	ND		5.4	2.2	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Styrene	ND		5.4	0.98	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Tetrachloroethene	ND		5.4	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Toluene	ND		5.4	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
trans-1,2-Dichloroethene	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
trans-1,3-Dichloropropene	ND		5.4	0.65	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Trichloroethene	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Trichlorofluoromethane	ND		5.4	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Vinyl chloride	ND		5.4	0.87	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1
Xylenes, Total	ND		11	0.76	ug/Kg	☼	07/23/24 10:54	07/24/24 13:46	1

Client Sample ID: DEP51-S1

Lab Sample ID: 410-180859-1

Date Collected: 07/22/24 10:30
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 99.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*07/23/24 10:54*	*07/24/24 13:46*	*1*
4-Bromofluorobenzene (Surr)	*96*		*50 - 131*	*07/23/24 10:54*	*07/24/24 13:46*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 141*	*07/23/24 10:54*	*07/24/24 13:46*	*1*
Toluene-d8 (Surr)	*106*		*52 - 141*	*07/23/24 10:54*	*07/24/24 13:46*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8200		14	6.7	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Antimony	0.31		0.14	0.054	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Arsenic	4.4		0.27	0.090	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Barium	86	B ^2	0.27	0.12	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Beryllium	0.37		0.068	0.016	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Cadmium	0.19		0.068	0.027	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Calcium	38000		140	66	mg/Kg	☼	07/23/24 06:30	07/25/24 13:29	10
Chromium	640		14	6.4	mg/Kg	☼	07/23/24 06:30	07/25/24 18:06	100
Cobalt	9.5		0.14	0.054	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Copper	16		0.27	0.12	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Iron	16000		68	31	mg/Kg	☼	07/23/24 06:30	07/25/24 13:29	10
Lead	44		0.68	0.26	mg/Kg	☼	07/23/24 06:30	07/25/24 18:04	10
Magnesium	5700		6.8	3.3	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Manganese	300		0.27	0.14	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Nickel	34		0.27	0.13	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Potassium	3200		27	11	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Selenium	0.13	J	0.27	0.068	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Silver	0.035	J	0.068	0.027	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Sodium	95		34	16	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Thallium	0.17		0.068	0.026	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Vanadium	32		0.54	0.14	mg/Kg	☼	07/23/24 06:30	07/25/24 13:27	2
Zinc	140	^2	100	14	mg/Kg	☼	07/23/24 06:30	07/25/24 13:29	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.056	0.019	mg/Kg	☼	07/23/24 22:00	07/24/24 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	15		0.43	0.14	mg/Kg	☼	07/23/24 18:44	07/23/24 22:40	1
Cr (III) (SW846 7199 CR3)	620	!	0.010	0.0035	mg/Kg	☼		07/23/24 10:32	1
Percent Moisture (EPA Moisture)	0.7	!	1.0	1.0	%			07/23/24 09:39	1

Client Sample ID: DEP51-S2

Lab Sample ID: 410-180859-2

Date Collected: 07/22/24 10:45
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 94.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
1,1,2,2-Tetrachloroethane	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
1,1,2-Trichloroethane	ND		8.0	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
1,1-Dichloroethane	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
1,1-Dichloroethene	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Client Sample ID: DEP51-S2
Date Collected: 07/22/24 10:45
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-2
Matrix: Solid
Percent Solids: 94.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		16	8.0	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
1,2-Dibromo-3-Chloropropane	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
1,2-Dibromoethane	ND		8.0	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
1,2-Dichlorobenzene	ND		8.0	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
1,2-Dichloroethane	ND		8.0	0.96	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
1,2-Dichloropropane	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
1,3-Dichlorobenzene	ND		8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
1,4-Dichlorobenzene	ND		8.0	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
2-Butanone	**4.5**	**J**	16	3.2	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
2-Hexanone	ND		16	4.0	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
4-Methyl-2-pentanone	ND		16	3.2	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Acetone	**61**		32	9.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Benzene	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Bromodichloromethane	ND		8.0	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Bromoform	ND		16	8.0	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Bromomethane	ND		8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Carbon disulfide	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Carbon tetrachloride	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Chlorobenzene	ND		8.0	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Chloroethane	ND		8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Chloroform	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Chloromethane	ND		8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
cis-1,2-Dichloroethene	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
cis-1,3-Dichloropropene	ND		8.0	0.96	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Cyclohexane	ND		8.0	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Dibromochloromethane	ND		8.0	0.80	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Dichlorodifluoromethane	ND		8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Ethylbenzene	ND		8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Freon 113	ND		16	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Isopropylbenzene	ND		8.0	2.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Methyl acetate	**1.6**	**J**	8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Methyl tertiary butyl ether	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Methylcyclohexane	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Methylene Chloride	ND		8.0	3.2	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Styrene	ND		8.0	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Tetrachloroethene	ND		8.0	2.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Toluene	ND		8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
trans-1,2-Dichloroethene	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
trans-1,3-Dichloropropene	ND		8.0	0.96	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Trichloroethene	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Trichlorofluoromethane	ND		8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Vinyl chloride	ND		8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1
Xylenes, Total	ND		16	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*54 - 135*	*07/23/24 10:54*	*07/24/24 14:09*	*1*
4-Bromofluorobenzene (Surr)	*95*		*50 - 131*	*07/23/24 10:54*	*07/24/24 14:09*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 141*	*07/23/24 10:54*	*07/24/24 14:09*	*1*
Toluene-d8 (Surr)	*105*		*52 - 141*	*07/23/24 10:54*	*07/24/24 14:09*	*1*

Client Sample ID: DEP51-S2

Lab Sample ID: 410-180859-2

Date Collected: 07/22/24 10:45
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 94.7

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9500		16	8.0	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Antimony	0.34		0.16	0.064	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Arsenic	5.7		0.32	0.11	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Barium	97	B ^2	0.32	0.15	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Beryllium	0.44		0.081	0.019	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Cadmium	0.23		0.081	0.032	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Calcium	28000		160	79	mg/Kg	☼	07/23/24 06:30	07/25/24 13:25	10
Chromium	760		16	7.7	mg/Kg	☼	07/23/24 06:30	07/25/24 18:02	100
Cobalt	11		0.16	0.064	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Copper	21		0.32	0.15	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Iron	17000		81	37	mg/Kg	☼	07/23/24 06:30	07/25/24 13:25	10
Lead	66		0.81	0.31	mg/Kg	☼	07/23/24 06:30	07/25/24 18:00	10
Magnesium	6100		8.1	3.9	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Manganese	310		0.32	0.16	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Nickel	42		0.32	0.15	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Potassium	3700		32	13	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Selenium	0.14	J	0.32	0.081	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Silver	0.11		0.081	0.033	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Sodium	120		40	19	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Thallium	0.21		0.081	0.032	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Vanadium	35		0.64	0.16	mg/Kg	☼	07/23/24 06:30	07/25/24 13:23	2
Zinc	200	^2	120	16	mg/Kg	☼	07/23/24 06:30	07/25/24 13:25	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053	J	0.062	0.021	mg/Kg	☼	07/23/24 22:00	07/24/24 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	10		0.47	0.16	mg/Kg	☼	07/23/24 18:44	07/23/24 22:40	1
Cr (III) (SW846 7199 CR3)	750	!	0.011	0.0037	mg/Kg	☼		07/23/24 10:32	1
Percent Moisture (EPA Moisture)	5.3	!	1.0	1.0	%			07/23/24 09:39	1

Client Sample ID: DEP51-S3

Lab Sample ID: 410-180859-3

Date Collected: 07/22/24 10:50
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 95.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
1,1,2,2-Tetrachloroethane	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
1,1,2-Trichloroethane	ND		13	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
1,1-Dichloroethane	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
1,1-Dichloroethene	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
1,2,4-Trichlorobenzene	ND		26	13	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
1,2-Dibromo-3-Chloropropane	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
1,2-Dibromoethane	ND		13	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
1,2-Dichlorobenzene	ND		13	2.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
1,2-Dichloroethane	ND		13	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
1,2-Dichloropropane	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1

Client Sample ID: DEP51-S3
Date Collected: 07/22/24 10:50
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-3
Matrix: Solid
Percent Solids: 95.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		13	2.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
1,4-Dichlorobenzene	ND		13	2.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
2-Butanone	ND		26	5.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
2-Hexanone	ND		26	6.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
4-Methyl-2-pentanone	ND		26	5.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Acetone	ND		53	16	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Benzene	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Bromodichloromethane	ND		13	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Bromoform	ND		26	13	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Bromomethane	ND		13	2.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Carbon disulfide	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Carbon tetrachloride	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Chlorobenzene	ND		13	2.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Chloroethane	ND		13	2.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Chloroform	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Chloromethane	ND		13	2.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
cis-1,2-Dichloroethene	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
cis-1,3-Dichloropropene	ND		13	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Cyclohexane	ND		13	2.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Dibromochloromethane	ND		13	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Dichlorodifluoromethane	ND		13	2.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Ethylbenzene	ND		13	2.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Freon 113	ND		26	2.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Isopropylbenzene	ND		13	4.0	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Methyl acetate	ND		13	2.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Methyl tertiary butyl ether	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Methylcyclohexane	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Methylene Chloride	ND		13	5.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Styrene	ND		13	2.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Tetrachloroethene	ND		13	4.0	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Toluene	ND		13	2.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
trans-1,2-Dichloroethene	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
trans-1,3-Dichloropropene	ND		13	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Trichloroethene	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Trichlorofluoromethane	ND		13	2.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Vinyl chloride	ND		13	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1
Xylenes, Total	ND		26	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*54 - 135*	*07/23/24 10:54*	*07/24/24 14:31*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 131*	*07/23/24 10:54*	*07/24/24 14:31*	*1*
Dibromofluoromethane (Surr)	*97*		*50 - 141*	*07/23/24 10:54*	*07/24/24 14:31*	*1*
Toluene-d8 (Surr)	*107*		*52 - 141*	*07/23/24 10:54*	*07/24/24 14:31*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17000**		19	9.6	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Antimony	**0.53**		0.19	0.077	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Arsenic	**9.8**		0.39	0.13	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Barium	**160**	**B**	0.39	0.18	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2

Client Sample ID: DEP51-S3

Lab Sample ID: 410-180859-3

Date Collected: 07/22/24 10:50
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 95.7

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.76		0.097	0.023	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Cadmium	0.41		0.097	0.039	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Calcium	49000		190	95	mg/Kg	☼	07/23/24 06:30	07/25/24 13:11	10
Chromium	1400		19	9.2	mg/Kg	☼	07/23/24 06:30	07/25/24 17:48	100
Cobalt	18	^2	0.19	0.077	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Copper	41		0.39	0.17	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Iron	30000		97	45	mg/Kg	☼	07/23/24 06:30	07/25/24 13:11	10
Lead	110		0.19	0.073	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Magnesium	9600		9.7	4.7	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Manganese	530		0.39	0.19	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Nickel	66		0.39	0.18	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Potassium	6800		39	15	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Selenium	0.33	J	0.39	0.097	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Silver	0.11		0.097	0.039	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Sodium	170		48	23	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Thallium	0.37		0.097	0.038	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Vanadium	62		0.77	0.19	mg/Kg	☼	07/23/24 06:30	07/25/24 13:09	2
Zinc	310		150	19	mg/Kg	☼	07/23/24 06:30	07/25/24 13:11	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.061	0.020	mg/Kg	☼	07/23/24 22:00	07/24/24 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	38		4.6	1.5	mg/Kg	☼	07/23/24 18:44	07/23/24 22:40	10
Cr (III) (SW846 7199 CR3)	1400	!	0.010	0.0037	mg/Kg	☼		07/23/24 10:32	1
Percent Moisture (EPA Moisture)	4.3	!	1.0	1.0	%			07/23/24 09:39	1

Client Sample ID: DEP51-S4

Lab Sample ID: 410-180859-4

Date Collected: 07/22/24 11:00
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 97.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
1,1,2,2-Tetrachloroethane	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
1,1,2-Trichloroethane	ND		12	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
1,1-Dichloroethane	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
1,1-Dichloroethene	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
1,2,4-Trichlorobenzene	ND		23	12	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
1,2-Dibromo-3-Chloropropane	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
1,2-Dibromoethane	ND		12	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
1,2-Dichlorobenzene	ND		12	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
1,2-Dichloroethane	ND		12	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
1,2-Dichloropropane	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
1,3-Dichlorobenzene	ND		12	2.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
1,4-Dichlorobenzene	ND		12	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
2-Butanone	25		23	4.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
2-Hexanone	ND		23	5.8	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1

Client Sample ID: DEP51-S4
Date Collected: 07/22/24 11:00
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-4
Matrix: Solid
Percent Solids: 97.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		23	4.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Acetone	**270**		46	14	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Benzene	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Bromodichloromethane	ND		12	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Bromoform	ND		23	12	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Bromomethane	ND		12	2.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Carbon disulfide	**2.2**	**J**	12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Carbon tetrachloride	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Chlorobenzene	ND		12	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Chloroethane	ND		12	2.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Chloroform	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Chloromethane	ND		12	2.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
cis-1,2-Dichloroethene	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
cis-1,3-Dichloropropene	ND		12	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Cyclohexane	ND		12	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Dibromochloromethane	ND		12	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Dichlorodifluoromethane	ND		12	2.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Ethylbenzene	ND		12	2.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Freon 113	ND		23	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Isopropylbenzene	ND		12	3.5	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Methyl acetate	ND		12	2.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Methyl tertiary butyl ether	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Methylcyclohexane	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Methylene Chloride	ND		12	4.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Styrene	ND		12	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Tetrachloroethene	ND		12	3.5	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Toluene	**2.4**	**J**	12	2.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
trans-1,2-Dichloroethene	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
trans-1,3-Dichloropropene	ND		12	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Trichloroethene	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Trichlorofluoromethane	ND		12	2.3	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Vinyl chloride	ND		12	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1
Xylenes, Total	ND		23	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*	*07/23/24 10:54*	*07/24/24 14:54*	*1*
4-Bromofluorobenzene (Surr)	*87*		*50 - 131*	*07/23/24 10:54*	*07/24/24 14:54*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 141*	*07/23/24 10:54*	*07/24/24 14:54*	*1*
Toluene-d8 (Surr)	*112*		*52 - 141*	*07/23/24 10:54*	*07/24/24 14:54*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14000**		17	8.6	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Antimony	**0.65**		0.17	0.069	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Arsenic	**8.2**		0.35	0.12	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Barium	**140**	**B ^2**	0.35	0.16	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Beryllium	**0.63**		0.087	0.021	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Cadmium	**0.41**		0.087	0.035	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Calcium	**29000**		170	85	mg/Kg	☼	07/23/24 06:30	07/25/24 13:21	10
Chromium	**810**		17	8.2	mg/Kg	☼	07/23/24 06:30	07/25/24 17:58	100

Client Sample ID: DEP51-S4

Lab Sample ID: 410-180859-4

Date Collected: 07/22/24 11:00
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 97.0

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	14		0.17	0.069	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Copper	42		0.35	0.16	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Iron	29000		87	40	mg/Kg	☼	07/23/24 06:30	07/25/24 13:21	10
Lead	230		0.87	0.33	mg/Kg	☼	07/23/24 06:30	07/25/24 17:56	10
Magnesium	9100		8.7	4.2	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Manganese	500		0.35	0.17	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Nickel	49		0.35	0.16	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Potassium	4500		35	14	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Selenium	0.30	J	0.35	0.087	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Silver	0.12		0.087	0.035	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Sodium	210		43	21	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Thallium	0.29		0.087	0.034	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Vanadium	44		0.69	0.17	mg/Kg	☼	07/23/24 06:30	07/25/24 13:19	2
Zinc	310	^2	130	17	mg/Kg	☼	07/23/24 06:30	07/25/24 13:21	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.098		0.062	0.021	mg/Kg	☼	07/23/24 22:00	07/24/24 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	4.5	1.5	mg/Kg	☼	07/23/24 18:44	07/23/24 22:40	10
Cr (III) (SW846 7199 CR3)	810	!	0.010	0.0036	mg/Kg	☼		07/23/24 10:32	1
Percent Moisture (EPA Moisture)	3.0	!	1.0	1.0	%			07/23/24 09:39	1

Client Sample ID: DEP51-S5

Lab Sample ID: 410-180859-5

Date Collected: 07/22/24 11:05
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 76.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
1,1,2,2-Tetrachloroethane	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
1,1,2-Trichloroethane	ND		10	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
1,1-Dichloroethane	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
1,1-Dichloroethene	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
1,2,4-Trichlorobenzene	ND		21	10	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
1,2-Dibromo-3-Chloropropane	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
1,2-Dibromoethane	ND		10	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
1,2-Dichlorobenzene	ND		10	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
1,2-Dichloroethane	ND		10	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
1,2-Dichloropropane	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
1,3-Dichlorobenzene	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
1,4-Dichlorobenzene	ND		10	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
2-Butanone	32		21	4.2	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
2-Hexanone	ND		21	5.2	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
4-Methyl-2-pentanone	ND		21	4.2	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Acetone	440		42	13	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Benzene	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Bromodichloromethane	ND		10	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1

Client Sample ID: DEP51-S5
Date Collected: 07/22/24 11:05
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-5
Matrix: Solid
Percent Solids: 76.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		21	10	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Bromomethane	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Carbon disulfide	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Carbon tetrachloride	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Chlorobenzene	ND		10	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Chloroethane	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Chloroform	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Chloromethane	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
cis-1,2-Dichloroethene	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
cis-1,3-Dichloropropene	ND		10	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Cyclohexane	ND		10	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Dibromochloromethane	ND		10	1.0	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Dichlorodifluoromethane	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Ethylbenzene	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Freon 113	ND		21	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Isopropylbenzene	ND		10	3.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Methyl acetate	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Methyl tertiary butyl ether	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Methylcyclohexane	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Methylene Chloride	ND		10	4.2	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Styrene	ND		10	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Tetrachloroethene	ND		10	3.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Toluene	**2.8**	**J**	10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
trans-1,2-Dichloroethene	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
trans-1,3-Dichloropropene	ND		10	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Trichloroethene	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Trichlorofluoromethane	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Vinyl chloride	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1
Xylenes, Total	ND		21	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*	*07/23/24 10:54*	*07/24/24 20:33*	*1*
4-Bromofluorobenzene (Surr)	*80*		*50 - 131*	*07/23/24 10:54*	*07/24/24 20:33*	*1*
Dibromofluoromethane (Surr)	*97*		*50 - 141*	*07/23/24 10:54*	*07/24/24 20:33*	*1*
Toluene-d8 (Surr)	*119*		*52 - 141*	*07/23/24 10:54*	*07/24/24 20:33*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9200**		21	10	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Antimony	**0.49**		0.21	0.084	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Arsenic	**5.0**		0.42	0.14	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Barium	**110**	**B**	0.42	0.19	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Beryllium	**0.42**		0.11	0.025	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Cadmium	**0.28**		0.11	0.042	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Calcium	**10000**		42	21	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Chromium	**330**		2.1	1.0	mg/Kg	☼	07/23/24 06:30	07/25/24 13:07	10
Cobalt	**9.7**	**^2**	0.21	0.084	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Copper	**26**		0.42	0.19	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Iron	**19000**		110	49	mg/Kg	☼	07/23/24 06:30	07/25/24 13:07	10
Lead	**460**		1.1	0.40	mg/Kg	☼	07/23/24 06:30	07/25/24 13:07	10

Client Sample ID: DEP51-S5

Lab Sample ID: 410-180859-5

Date Collected: 07/22/24 11:05
Date Received: 07/22/24 16:10

Matrix: Solid
Percent Solids: 76.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**6200**		11	5.2	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Manganese	**340**		0.42	0.21	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Nickel	**28**		0.42	0.20	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Potassium	**4600**		42	17	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Selenium	**0.17**	**J**	0.42	0.11	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Silver	**0.056**	**J**	0.11	0.043	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Sodium	**220**		53	25	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Thallium	**0.23**		0.11	0.041	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Vanadium	**30**		0.84	0.21	mg/Kg	☼	07/23/24 06:30	07/25/24 13:05	2
Zinc	**280**		160	21	mg/Kg	☼	07/23/24 06:30	07/25/24 13:07	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.077	0.026	mg/Kg	☼	07/23/24 22:00	07/24/24 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	5.6	1.9	mg/Kg	☼	07/23/24 18:44	07/23/24 22:40	10
Cr (III) (SW846 7199 CR3)	**330**	**!**	0.013	0.0046	mg/Kg	☼		07/23/24 10:32	1
Percent Moisture (EPA Moisture)	**23.5**	**!**	1.0	1.0	%			07/23/24 09:39	1

Client Sample ID: DEP51-S6

Lab Sample ID: 410-180859-6

Date Collected: 07/22/24 11:10
Date Received: 07/22/24 16:10

Matrix: Solid
Percent Solids: 70.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
1,1,2,2-Tetrachloroethane	ND	*3 cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
1,1,2-Trichloroethane	ND	cn	7.4	1.0	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
1,1-Dichloroethane	ND	cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
1,1-Dichloroethene	ND	cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
1,2,4-Trichlorobenzene	ND	*3 cn	15	7.4	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
1,2-Dibromo-3-Chloropropane	ND	*3 cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
1,2-Dibromoethane	ND	cn	7.4	1.0	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
1,2-Dichlorobenzene	ND	*3 cn	7.4	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
1,2-Dichloroethane	ND	cn	7.4	0.88	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
1,2-Dichloropropane	ND	cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
1,3-Dichlorobenzene	ND	*3 cn	7.4	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
1,4-Dichlorobenzene	ND	*3 cn	7.4	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
2-Butanone	**9.7**	**J cn**	15	2.9	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
2-Hexanone	ND	cn	15	3.7	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
4-Methyl-2-pentanone	ND	cn	15	2.9	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Acetone	**100**	**cn**	29	8.8	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Benzene	**3.0**	**J cn**	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Bromodichloromethane	ND	cn	7.4	1.0	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Bromoform	ND	cn	15	7.4	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Bromomethane	ND	cn	7.4	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Carbon disulfide	**3.4**	**J cn**	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Carbon tetrachloride	ND	cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1

Client Sample ID: DEP51-S6
Date Collected: 07/22/24 11:10
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-6
Matrix: Solid
Percent Solids: 70.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	cn	7.4	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Chloroethane	ND	cn	7.4	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Chloroform	ND	cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Chloromethane	ND	cn	7.4	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
cis-1,2-Dichloroethene	ND	cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
cis-1,3-Dichloropropene	ND	cn	7.4	0.88	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Cyclohexane	ND	cn	7.4	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Dibromochloromethane	ND	cn	7.4	0.74	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Dichlorodifluoromethane	ND	cn	7.4	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Ethylbenzene	ND	cn	7.4	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Freon 113	ND	cn	15	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Isopropylbenzene	ND	cn	7.4	2.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Methyl acetate	ND	cn	7.4	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Methyl tertiary butyl ether	ND	cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Methylcyclohexane	ND	cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Methylene Chloride	ND	cn	7.4	2.9	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Styrene	ND	cn	7.4	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Tetrachloroethene	ND	cn	7.4	2.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Toluene	**2.7**	**J cn**	7.4	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
trans-1,2-Dichloroethene	ND	cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
trans-1,3-Dichloropropene	ND	cn	7.4	0.88	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Trichloroethene	ND	cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Trichlorofluoromethane	ND	cn	7.4	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Vinyl chloride	ND	cn	7.4	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1
Xylenes, Total	ND	cn	15	1.0	ug/Kg	☼	07/23/24 10:54	07/24/24 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*	*cn*	*54 - 135*	*07/23/24 10:54*	*07/24/24 15:39*	*1*
4-Bromofluorobenzene (Surr)	*78*	*cn*	*50 - 131*	*07/23/24 10:54*	*07/24/24 15:39*	*1*
Dibromofluoromethane (Surr)	*98*	*cn*	*50 - 141*	*07/23/24 10:54*	*07/24/24 15:39*	*1*
Toluene-d8 (Surr)	*125*	*cn*	*52 - 141*	*07/23/24 10:54*	*07/24/24 15:39*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7400**		20	10	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Antimony	**1.9**		0.20	0.082	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Arsenic	**12**		0.41	0.14	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Barium	**130**	**B**	0.41	0.19	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Beryllium	**0.49**		0.10	0.024	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Cadmium	**0.59**		0.10	0.041	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Calcium	**13000**		41	20	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Chromium	**250**		2.0	0.97	mg/Kg	☼	07/23/24 06:30	07/25/24 13:03	10
Cobalt	**11**	**^2**	0.20	0.082	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Copper	**88**		0.41	0.18	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Iron	**58000**		100	47	mg/Kg	☼	07/23/24 06:30	07/25/24 13:03	10
Lead	**270**		1.0	0.39	mg/Kg	☼	07/23/24 06:30	07/25/24 13:03	10
Magnesium	**3500**		10	5.0	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Manganese	**480**		0.41	0.20	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Nickel	**33**		0.41	0.19	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Potassium	**2100**		41	16	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2

Client Sample ID: DEP51-S6

Lab Sample ID: 410-180859-6

Date Collected: 07/22/24 11:10
Date Received: 07/22/24 16:10

Matrix: Solid
Percent Solids: 70.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.53		0.41	0.10	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Silver	0.16		0.10	0.041	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Sodium	140		51	24	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Thallium	0.19		0.10	0.040	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Vanadium	27		0.82	0.20	mg/Kg	☼	07/23/24 06:30	07/25/24 13:01	2
Zinc	210		150	20	mg/Kg	☼	07/23/24 06:30	07/25/24 13:03	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.084	0.028	mg/Kg	☼	07/23/24 22:00	07/24/24 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	6.3	2.1	mg/Kg	☼	07/23/24 18:44	07/23/24 22:40	10
Cr (III) (SW846 7199 CR3)	250	!	0.014	0.0050	mg/Kg	☼		07/23/24 10:32	1
Percent Moisture (EPA Moisture)	29.5	!	1.0	1.0	%			07/23/24 09:39	1

Client Sample ID: DEP51-S7

Lab Sample ID: 410-180859-7

Date Collected: 07/22/24 11:15
Date Received: 07/22/24 16:10

Matrix: Solid
Percent Solids: 71.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	500	69	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
1,1,2,2-Tetrachloroethane	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
1,1,2-Trichloroethane	ND	cn	500	50	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
1,1-Dichloroethane	ND	cn	500	50	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
1,1-Dichloroethene	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
1,2,4-Trichlorobenzene	ND	cn	990	500	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
1,2-Dibromo-3-Chloropropane	ND	^c cn	500	99	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
1,2-Dibromoethane	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
1,2-Dichlorobenzene	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
1,2-Dichloroethane	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
1,2-Dichloropropane	ND	cn	500	50	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
1,3-Dichlorobenzene	ND	cn	500	50	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
1,4-Dichlorobenzene	ND	cn	500	50	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
2-Butanone	ND	cn	990	200	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
2-Hexanone	ND	^c cn	990	150	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
4-Methyl-2-pentanone	ND	^c cn	990	150	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Acetone	ND	^c cn	2000	590	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Benzene	ND	cn	500	50	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Bromodichloromethane	ND	cn	500	69	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Bromoform	ND	cn	990	500	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Bromomethane	ND	*+ ^c cn	500	160	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Carbon disulfide	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Carbon tetrachloride	ND	cn	500	200	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Chlorobenzene	ND	cn	500	50	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Chloroethane	ND	*+ ^c cn	500	150	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Chloroform	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Chloromethane	ND	cn	500	89	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50

Client Sample ID: DEP51-S7
Date Collected: 07/22/24 11:15
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-7
Matrix: Solid
Percent Solids: 71.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
cis-1,3-Dichloropropene	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Cyclohexane	ND	cn	500	50	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Dibromochloromethane	ND	cn	500	200	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Dichlorodifluoromethane	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Ethylbenzene	ND	cn	500	40	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Freon 113	ND	cn	990	69	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Isopropylbenzene	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Methyl acetate	**210**	**J ^c cn**	500	99	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Methyl tertiary butyl ether	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Methylcyclohexane	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Methylene Chloride	ND	cn	500	200	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Styrene	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Tetrachloroethene	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Toluene	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
trans-1,2-Dichloroethene	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
trans-1,3-Dichloropropene	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Trichloroethene	ND	cn	500	59	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Trichlorofluoromethane	ND	cn	500	79	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Vinyl chloride	ND	cn	500	79	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50
Xylenes, Total	ND	cn	500	140	ug/Kg	☼	07/23/24 11:01	07/25/24 02:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*76*	*cn*	*54 - 135*	*07/23/24 11:01*	*07/25/24 02:22*	*50*
4-Bromofluorobenzene (Surr)	*69*	*cn*	*50 - 131*	*07/23/24 11:01*	*07/25/24 02:22*	*50*
Dibromofluoromethane (Surr)	*75*	*cn*	*50 - 141*	*07/23/24 11:01*	*07/25/24 02:22*	*50*
Toluene-d8 (Surr)	*73*	*cn*	*52 - 141*	*07/23/24 11:01*	*07/25/24 02:22*	*50*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		24	12	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Antimony	**0.79**		0.24	0.096	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Arsenic	**10**		0.48	0.16	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Barium	**120**	**B**	0.48	0.22	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Beryllium	**0.66**		0.12	0.029	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Cadmium	**0.45**		0.12	0.048	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Calcium	**26000**		240	120	mg/Kg	☼	07/23/24 06:30	07/25/24 12:59	10
Chromium	**1100**		2.4	1.1	mg/Kg	☼	07/23/24 06:30	07/25/24 12:59	10
Cobalt	**14**	**^2**	0.24	0.096	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Copper	**45**		0.48	0.22	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Iron	**28000**		120	55	mg/Kg	☼	07/23/24 06:30	07/25/24 12:59	10
Lead	**200**		0.24	0.091	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Magnesium	**7700**		12	5.9	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Manganese	**460**		0.48	0.24	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Nickel	**60**		0.48	0.23	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Potassium	**4000**		48	19	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Selenium	**0.32**	**J**	0.48	0.12	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Silver	**0.13**		0.12	0.049	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Sodium	**230**		60	29	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Thallium	**0.25**		0.12	0.047	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Client Sample ID: DEP51-S7

Lab Sample ID: 410-180859-7
Date Collected: 07/22/24 11:15
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 71.9

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	49		0.96	0.24	mg/Kg	☼	07/23/24 06:30	07/25/24 12:57	2
Zinc	360		180	24	mg/Kg	☼	07/23/24 06:30	07/25/24 12:59	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.077	0.026	mg/Kg	☼	07/23/24 22:00	07/24/24 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	77		2.9	0.96	mg/Kg	☼	07/23/24 18:44	07/23/24 22:40	5
Cr (III) (SW846 7199 CR3)	980	!	0.014	0.0049	mg/Kg	☼		07/23/24 10:32	1
Percent Moisture (EPA Moisture)	28.1	!	1.0	1.0	%			07/23/24 09:39	1

Client Sample ID: DUP-S

Lab Sample ID: 410-180859-8
Date Collected: 07/22/24 00:00
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 74.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	510	72	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
1,1,2,2-Tetrachloroethane	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
1,1,2-Trichloroethane	ND	cn	510	51	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
1,1-Dichloroethane	ND	cn	510	51	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
1,1-Dichloroethene	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
1,2,4-Trichlorobenzene	ND	cn	1000	510	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
1,2-Dibromo-3-Chloropropane	ND	^c cn	510	100	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
1,2-Dibromoethane	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
1,2-Dichlorobenzene	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
1,2-Dichloroethane	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
1,2-Dichloropropane	ND	cn	510	51	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
1,3-Dichlorobenzene	ND	cn	510	51	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
1,4-Dichlorobenzene	ND	cn	510	51	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
2-Butanone	ND	cn	1000	210	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
2-Hexanone	ND	^c cn	1000	150	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
4-Methyl-2-pentanone	ND	^c cn	1000	150	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Acetone	ND	^c cn	2100	620	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Benzene	ND	cn	510	51	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Bromodichloromethane	ND	cn	510	72	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Bromoform	ND	cn	1000	510	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Bromomethane	ND	*+ ^c cn	510	160	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Carbon disulfide	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Carbon tetrachloride	ND	cn	510	210	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Chlorobenzene	ND	cn	510	51	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Chloroethane	ND	*+ ^c cn	510	150	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Chloroform	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Chloromethane	ND	cn	510	92	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
cis-1,2-Dichloroethene	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
cis-1,3-Dichloropropene	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Cyclohexane	180	J cn	510	51	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Dibromochloromethane	ND	cn	510	210	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Client Sample ID: DUP-S
Date Collected: 07/22/24 00:00
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-8
Matrix: Solid
Percent Solids: 74.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Ethylbenzene	**47**	**J cn**	510	41	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Freon 113	ND	cn	1000	72	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Isopropylbenzene	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Methyl acetate	**120**	**J ^c cn**	510	100	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Methyl tertiary butyl ether	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Methylcyclohexane	**460**	**J cn**	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Methylene Chloride	ND	cn	510	210	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Styrene	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Tetrachloroethene	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Toluene	**130**	**J cn**	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
trans-1,2-Dichloroethene	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
trans-1,3-Dichloropropene	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Trichloroethene	ND	cn	510	62	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Trichlorofluoromethane	ND	cn	510	82	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Vinyl chloride	ND	cn	510	82	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50
Xylenes, Total	**390**	**J cn**	510	140	ug/Kg	☼	07/23/24 11:01	07/25/24 02:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*70*	*cn*	*54 - 135*	*07/23/24 11:01*	*07/25/24 02:43*	*50*
4-Bromofluorobenzene (Surr)	*59*	*cn*	*50 - 131*	*07/23/24 11:01*	*07/25/24 02:43*	*50*
Dibromofluoromethane (Surr)	*71*	*cn*	*50 - 141*	*07/23/24 11:01*	*07/25/24 02:43*	*50*
Toluene-d8 (Surr)	*66*	*cn*	*52 - 141*	*07/23/24 11:01*	*07/25/24 02:43*	*50*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**		24	12	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Antimony	**2.5**		0.24	0.096	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Arsenic	**13**		0.48	0.16	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Barium	**160**	**B**	0.48	0.22	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Beryllium	**0.59**		0.12	0.029	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Cadmium	**0.66**		0.12	0.048	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Calcium	**15000**		48	24	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Chromium	**380**		2.4	1.1	mg/Kg	☼	07/23/24 06:30	07/25/24 12:49	10
Cobalt	**11**	**^2**	0.24	0.096	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Copper	**110**		0.48	0.22	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Iron	**44000**		120	55	mg/Kg	☼	07/23/24 06:30	07/25/24 12:49	10
Lead	**330**		1.2	0.46	mg/Kg	☼	07/23/24 06:30	07/25/24 12:49	10
Magnesium	**4200**		12	5.9	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Manganese	**450**		0.48	0.24	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Nickel	**37**		0.48	0.23	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Potassium	**2500**		48	19	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Selenium	**0.68**		0.48	0.12	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Silver	**0.18**		0.12	0.049	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Sodium	**170**		60	29	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Thallium	**0.23**		0.12	0.047	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Vanadium	**33**		0.96	0.24	mg/Kg	☼	07/23/24 06:30	07/25/24 12:47	2
Zinc	**290**		180	24	mg/Kg	☼	07/23/24 06:30	07/25/24 12:49	10

Client Sample ID: DUP-S

Lab Sample ID: 410-180859-8

Date Collected: 07/22/24 00:00
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 74.5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.27**		0.074	0.025	mg/Kg	☼	07/23/24 22:00	07/24/24 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**28**		5.8	1.9	mg/Kg	☼	07/23/24 18:44	07/23/24 22:40	10
Cr (III) (SW846 7199 CR3)	**350**	**!**	0.013	0.0047	mg/Kg	☼		07/23/24 10:32	1
Percent Moisture (EPA Moisture)	**25.5**	**!**	1.0	1.0	%			07/23/24 09:39	1

Client Sample ID: DEP51-S8

Lab Sample ID: 410-180859-9

Date Collected: 07/22/24 11:20
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 62.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
1,1,2,2-Tetrachloroethane	ND	*3 cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
1,1,2-Trichloroethane	ND	cn	8.0	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
1,1-Dichloroethane	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
1,1-Dichloroethene	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
1,2,4-Trichlorobenzene	ND	*3 cn	16	8.0	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
1,2-Dibromo-3-Chloropropane	ND	*3 cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
1,2-Dibromoethane	ND	cn	8.0	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
1,2-Dichlorobenzene	ND	*3 cn	8.0	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
1,2-Dichloroethane	ND	cn	8.0	0.96	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
1,2-Dichloropropane	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
1,3-Dichlorobenzene	ND	*3 cn	8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
1,4-Dichlorobenzene	ND	*3 cn	8.0	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
2-Butanone	ND	cn	16	3.2	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
2-Hexanone	ND	cn	16	4.0	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
4-Methyl-2-pentanone	ND	cn	16	3.2	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Acetone	**40**	**cn**	32	9.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Benzene	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Bromodichloromethane	ND	cn	8.0	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Bromoform	ND	cn	16	8.0	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Bromomethane	ND	cn	8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Carbon disulfide	**1.3**	**J cn**	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Carbon tetrachloride	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Chlorobenzene	ND	cn	8.0	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Chloroethane	ND	cn	8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Chloroform	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Chloromethane	ND	cn	8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
cis-1,2-Dichloroethene	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
cis-1,3-Dichloropropene	ND	cn	8.0	0.96	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Cyclohexane	ND	cn	8.0	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Dibromochloromethane	ND	cn	8.0	0.80	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Dichlorodifluoromethane	ND	cn	8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Ethylbenzene	ND	cn	8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Freon 113	ND	cn	16	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Isopropylbenzene	ND	cn	8.0	2.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Methyl acetate	**14**	**cn**	8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1

Client Sample ID: DEP51-S8
Date Collected: 07/22/24 11:20
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-9
Matrix: Solid
Percent Solids: 62.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Methylcyclohexane	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Methylene Chloride	ND	cn	8.0	3.2	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Styrene	ND	cn	8.0	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Tetrachloroethene	ND	cn	8.0	2.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Toluene	ND	cn	8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
trans-1,2-Dichloroethene	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
trans-1,3-Dichloropropene	ND	cn	8.0	0.96	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Trichloroethene	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Trichlorofluoromethane	ND	cn	8.0	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Vinyl chloride	ND	cn	8.0	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1
Xylenes, Total	ND	cn	16	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*	*cn*	*54 - 135*	*07/23/24 10:54*	*07/24/24 16:02*	*1*
4-Bromofluorobenzene (Surr)	*81*	*cn*	*50 - 131*	*07/23/24 10:54*	*07/24/24 16:02*	*1*
Dibromofluoromethane (Surr)	*96*	*cn*	*50 - 141*	*07/23/24 10:54*	*07/24/24 16:02*	*1*
Toluene-d8 (Surr)	*119*	*cn*	*52 - 141*	*07/23/24 10:54*	*07/24/24 16:02*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		23	11	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Antimony	**0.92**		0.23	0.092	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Arsenic	**9.9**		0.46	0.15	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Barium	**130**	**B**	0.46	0.21	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Beryllium	**0.64**		0.11	0.027	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Cadmium	**0.43**		0.11	0.046	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Calcium	**23000**		230	110	mg/Kg	☼	07/23/24 06:30	07/25/24 12:27	10
Chromium	**870**		2.3	1.1	mg/Kg	☼	07/23/24 06:30	07/25/24 12:27	10
Cobalt	**14**		0.23	0.092	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Copper	**62**		0.46	0.21	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Iron	**25000**		110	53	mg/Kg	☼	07/23/24 06:30	07/25/24 12:27	10
Lead	**200**		0.23	0.087	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Magnesium	**6900**		11	5.6	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Manganese	**560**		0.46	0.23	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Nickel	**48**		0.46	0.22	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Potassium	**3800**		46	18	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Selenium	**0.46**		0.46	0.11	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Silver	**0.12**		0.11	0.047	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Sodium	**240**		57	28	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Thallium	**0.27**		0.11	0.045	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Vanadium	**46**		0.92	0.23	mg/Kg	☼	07/23/24 06:30	07/25/24 12:26	2
Zinc	**290**		170	23	mg/Kg	☼	07/23/24 06:30	07/25/24 12:27	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**		0.090	0.030	mg/Kg	☼	07/23/24 22:00	07/24/24 12:19	1

Client Sample ID: DEP51-S8

Lab Sample ID: 410-180859-9

Date Collected: 07/22/24 11:20

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 62.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**54**		3.4	1.1	mg/Kg	☼	07/23/24 18:44	07/23/24 22:40	5
Cr (III) (SW846 7199 CR3)	**820**	**!**	0.016	0.0056	mg/Kg	☼		07/23/24 10:32	1
Percent Moisture (EPA Moisture)	**37.4**	**!**	1.0	1.0	%			07/23/24 09:39	1

Client Sample ID: DEP51-S9

Lab Sample ID: 410-180859-10

Date Collected: 07/22/24 11:25

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 74.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
1,1,2,2-Tetrachloroethane	ND	*3 cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
1,1,2-Trichloroethane	ND	cn	8.5	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
1,1-Dichloroethane	ND	cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
1,1-Dichloroethene	ND	cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
1,2,4-Trichlorobenzene	ND	*3 cn	17	8.5	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
1,2-Dibromo-3-Chloropropane	ND	*3 cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
1,2-Dibromoethane	ND	cn	8.5	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
1,2-Dichlorobenzene	ND	*3 cn	8.5	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
1,2-Dichloroethane	ND	cn	8.5	1.0	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
1,2-Dichloropropane	ND	cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
1,3-Dichlorobenzene	ND	*3 cn	8.5	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
1,4-Dichlorobenzene	ND	*3 cn	8.5	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
2-Butanone	**11**	**J cn**	17	3.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
2-Hexanone	ND	cn	17	4.3	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
4-Methyl-2-pentanone	ND	cn	17	3.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Acetone	**95**	**cn**	34	10	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Benzene	**1.5**	**J cn**	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Bromodichloromethane	ND	cn	8.5	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Bromoform	ND	cn	17	8.5	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Bromomethane	ND	cn	8.5	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Carbon disulfide	**2.9**	**J cn**	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Carbon tetrachloride	ND	cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Chlorobenzene	ND	cn	8.5	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Chloroethane	ND	cn	8.5	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Chloroform	ND	cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Chloromethane	ND	cn	8.5	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
cis-1,2-Dichloroethene	ND	cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
cis-1,3-Dichloropropene	ND	cn	8.5	1.0	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Cyclohexane	ND	cn	8.5	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Dibromochloromethane	ND	cn	8.5	0.85	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Dichlorodifluoromethane	ND	cn	8.5	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Ethylbenzene	ND	cn	8.5	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Freon 113	ND	cn	17	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Isopropylbenzene	ND	cn	8.5	2.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Methyl acetate	ND	cn	8.5	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Methyl tertiary butyl ether	ND	cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Methylcyclohexane	ND	cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Methylene Chloride	ND	cn	8.5	3.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Styrene	ND	cn	8.5	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1

Client Sample ID: DEP51-S9
Date Collected: 07/22/24 11:25
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-10
Matrix: Solid
Percent Solids: 74.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	cn	8.5	2.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Toluene	**2.5**	**J cn**	8.5	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
trans-1,2-Dichloroethene	ND	cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
trans-1,3-Dichloropropene	ND	cn	8.5	1.0	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Trichloroethene	ND	cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Trichlorofluoromethane	ND	cn	8.5	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Vinyl chloride	ND	cn	8.5	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1
Xylenes, Total	ND	cn	17	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*	*cn*	*54 - 135*	*07/23/24 10:54*	*07/24/24 16:24*	*1*
4-Bromofluorobenzene (Surr)	*80*	*cn*	*50 - 131*	*07/23/24 10:54*	*07/24/24 16:24*	*1*
Dibromofluoromethane (Surr)	*96*	*cn*	*50 - 141*	*07/23/24 10:54*	*07/24/24 16:24*	*1*
Toluene-d8 (Surr)	*119*	*cn*	*52 - 141*	*07/23/24 10:54*	*07/24/24 16:24*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**		22	11	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Antimony	**0.65**		0.22	0.090	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Arsenic	**8.6**		0.45	0.15	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Barium	**150**	**B**	0.45	0.21	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Beryllium	**0.82**		0.11	0.027	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Cadmium	**0.61**		0.11	0.045	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Calcium	**22000**		220	110	mg/Kg	☼	07/23/24 06:30	07/25/24 12:37	10
Chromium	**820**		2.2	1.1	mg/Kg	☼	07/23/24 06:30	07/25/24 12:37	10
Cobalt	**16**	**^2**	0.22	0.090	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Copper	**48**		0.45	0.20	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Iron	**28000**		110	52	mg/Kg	☼	07/23/24 06:30	07/25/24 12:37	10
Lead	**380**		1.1	0.43	mg/Kg	☼	07/23/24 06:30	07/25/24 12:37	10
Magnesium	**8200**		11	5.5	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Manganese	**620**		0.45	0.22	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Nickel	**53**		0.45	0.21	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Potassium	**4100**		45	18	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Selenium	**0.46**		0.45	0.11	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Silver	**0.18**		0.11	0.046	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Sodium	**200**		56	27	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Thallium	**0.29**		0.11	0.044	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Vanadium	**47**		0.90	0.22	mg/Kg	☼	07/23/24 06:30	07/25/24 12:35	2
Zinc	**430**		170	22	mg/Kg	☼	07/23/24 06:30	07/25/24 12:37	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.076	0.025	mg/Kg	☼	07/23/24 22:00	07/24/24 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	5.8	1.9	mg/Kg	☼	07/23/24 18:44	07/23/24 22:40	10
Cr (III) (SW846 7199 CR3)	**820**	**!**	0.013	0.0047	mg/Kg	☼		07/23/24 10:32	1
Percent Moisture (EPA Moisture)	**25.1**	**!**	1.0	1.0	%			07/23/24 09:39	1

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Client Sample ID: DEP51-S10
Date Collected: 07/22/24 11:30
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-11
Matrix: Solid
Percent Solids: 62.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
1,1,2,2-Tetrachloroethane	ND	*3 cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
1,1,2-Trichloroethane	ND	cn	8.8	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
1,1-Dichloroethane	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
1,1-Dichloroethene	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
1,2,4-Trichlorobenzene	ND	*3 cn	18	8.8	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
1,2-Dibromo-3-Chloropropane	ND	*3 cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
1,2-Dibromoethane	ND	cn	8.8	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
1,2-Dichlorobenzene	ND	*3 cn	8.8	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
1,2-Dichloroethane	ND	cn	8.8	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
1,2-Dichloropropane	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
1,3-Dichlorobenzene	ND	*3 cn	8.8	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
1,4-Dichlorobenzene	ND	*3 cn	8.8	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
2-Butanone	**20**	**cn**	18	3.5	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
2-Hexanone	ND	cn	18	4.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
4-Methyl-2-pentanone	ND	cn	18	3.5	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Acetone	**210**	**cn**	35	11	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Benzene	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Bromodichloromethane	ND	cn	8.8	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Bromoform	ND	cn	18	8.8	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Bromomethane	ND	cn	8.8	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Carbon disulfide	**1.9**	**J cn**	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Carbon tetrachloride	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Chlorobenzene	ND	cn	8.8	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Chloroethane	ND	cn	8.8	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Chloroform	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Chloromethane	ND	cn	8.8	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
cis-1,2-Dichloroethene	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
cis-1,3-Dichloropropene	ND	cn	8.8	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Cyclohexane	ND	cn	8.8	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Dibromochloromethane	ND	cn	8.8	0.88	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Dichlorodifluoromethane	ND	cn	8.8	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Ethylbenzene	ND	cn	8.8	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Freon 113	ND	cn	18	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Isopropylbenzene	ND	cn	8.8	2.7	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Methyl acetate	ND	cn	8.8	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Methyl tertiary butyl ether	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Methylcyclohexane	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Methylene Chloride	ND	cn	8.8	3.5	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Styrene	ND	cn	8.8	1.6	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Tetrachloroethene	ND	cn	8.8	2.7	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Toluene	ND	cn	8.8	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
trans-1,2-Dichloroethene	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
trans-1,3-Dichloropropene	ND	cn	8.8	1.1	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Trichloroethene	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Trichlorofluoromethane	ND	cn	8.8	1.8	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Vinyl chloride	ND	cn	8.8	1.4	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1
Xylenes, Total	ND	cn	18	1.2	ug/Kg	☼	07/23/24 10:54	07/24/24 16:47	1

Client Sample ID: DEP51-S10

Lab Sample ID: 410-180859-11

Date Collected: 07/22/24 11:30
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 62.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*	*cn*	*54 - 135*	*07/23/24 10:54*	*07/24/24 16:47*	*1*
4-Bromofluorobenzene (Surr)	*76*	*cn*	*50 - 131*	*07/23/24 10:54*	*07/24/24 16:47*	*1*
Dibromofluoromethane (Surr)	*98*	*cn*	*50 - 141*	*07/23/24 10:54*	*07/24/24 16:47*	*1*
Toluene-d8 (Surr)	*126*	*cn*	*52 - 141*	*07/23/24 10:54*	*07/24/24 16:47*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21000**		27	13	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Antimony	**0.81**		0.27	0.11	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Arsenic	**14**		0.54	0.18	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Barium	**150**	**B**	0.54	0.25	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Beryllium	**1.4**		0.14	0.032	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Cadmium	**0.52**		0.14	0.054	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Calcium	**43000**		270	130	mg/Kg	☼	07/23/24 06:30	07/25/24 12:41	10
Chromium	**940**		2.7	1.3	mg/Kg	☼	07/23/24 06:30	07/25/24 12:41	10
Cobalt	**19**	**^2**	0.27	0.11	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Copper	**61**		0.54	0.24	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Iron	**36000**		140	62	mg/Kg	☼	07/23/24 06:30	07/25/24 12:41	10
Lead	**170**		0.27	0.10	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Magnesium	**24000**		14	6.6	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Manganese	**850**		0.54	0.27	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Nickel	**62**		0.54	0.26	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Potassium	**5100**		54	22	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Selenium	**0.56**		0.54	0.14	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Silver	**0.19**		0.14	0.055	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Sodium	**1600**		68	32	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Thallium	**0.40**		0.14	0.053	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Vanadium	**86**		1.1	0.27	mg/Kg	☼	07/23/24 06:30	07/25/24 12:39	2
Zinc	**340**		200	27	mg/Kg	☼	07/23/24 06:30	07/25/24 12:41	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.24**		0.091	0.030	mg/Kg	☼	07/23/24 22:00	07/24/24 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**53**		6.9	2.3	mg/Kg	☼	07/23/24 18:44	07/23/24 22:40	10
Cr (III) (SW846 7199 CR3)	**880**	**!**	0.016	0.0056	mg/Kg	☼		07/23/24 10:32	1
Percent Moisture (EPA Moisture)	**37.3**	**!**	1.0	1.0	%			07/23/24 09:39	1

Client Sample ID: DEP51-S11

Lab Sample ID: 410-180859-12

Date Collected: 07/22/24 11:40
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 85.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
1,1,2,2-Tetrachloroethane	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
1,1,2-Trichloroethane	ND		10	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
1,1-Dichloroethane	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
1,1-Dichloroethene	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Client Sample ID: DEP51-S11
Date Collected: 07/22/24 11:40
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-12
Matrix: Solid
Percent Solids: 85.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		21	10	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
1,2-Dibromo-3-Chloropropane	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
1,2-Dibromoethane	ND		10	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
1,2-Dichlorobenzene	ND		10	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
1,2-Dichloroethane	ND		10	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
1,2-Dichloropropane	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
1,3-Dichlorobenzene	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
1,4-Dichlorobenzene	ND		10	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
2-Butanone	**21**		21	4.2	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
2-Hexanone	ND		21	5.2	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
4-Methyl-2-pentanone	ND		21	4.2	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Acetone	**210**		42	13	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Benzene	**3.1**	**J**	10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Bromodichloromethane	ND		10	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Bromoform	ND		21	10	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Bromomethane	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Carbon disulfide	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Carbon tetrachloride	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Chlorobenzene	ND		10	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Chloroethane	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Chloroform	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Chloromethane	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
cis-1,2-Dichloroethene	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
cis-1,3-Dichloropropene	ND		10	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Cyclohexane	ND		10	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Dibromochloromethane	ND		10	1.0	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Dichlorodifluoromethane	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Ethylbenzene	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Freon 113	ND		21	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Isopropylbenzene	ND		10	3.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Methyl acetate	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Methyl tertiary butyl ether	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Methylcyclohexane	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Methylene Chloride	ND		10	4.2	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Styrene	ND		10	1.9	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Tetrachloroethene	ND		10	3.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Toluene	**12**		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
trans-1,2-Dichloroethene	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
trans-1,3-Dichloropropene	ND		10	1.3	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Trichloroethene	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Trichlorofluoromethane	ND		10	2.1	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Vinyl chloride	ND		10	1.7	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1
Xylenes, Total	ND		21	1.5	ug/Kg	☼	07/23/24 10:54	07/24/24 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*54 - 135*	*07/23/24 10:54*	*07/24/24 20:10*	*1*
4-Bromofluorobenzene (Surr)	*80*		*50 - 131*	*07/23/24 10:54*	*07/24/24 20:10*	*1*
Dibromofluoromethane (Surr)	*98*		*50 - 141*	*07/23/24 10:54*	*07/24/24 20:10*	*1*
Toluene-d8 (Surr)	*120*		*52 - 141*	*07/23/24 10:54*	*07/24/24 20:10*	*1*

Client Sample ID: DEP51-S11

Lab Sample ID: 410-180859-12

Date Collected: 07/22/24 11:40
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 85.6

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		23	11	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Antimony	0.82		0.23	0.091	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Arsenic	7.0		0.45	0.15	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Barium	110	B	0.45	0.21	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Beryllium	0.75		0.11	0.027	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Cadmium	0.47		0.11	0.045	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Calcium	7200		45	22	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Chromium	100		0.45	0.22	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Cobalt	10	^2	0.23	0.091	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Copper	46		0.45	0.20	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Iron	23000		110	52	mg/Kg	☼	07/23/24 06:30	07/25/24 12:45	10
Lead	170		0.23	0.086	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Magnesium	5400		11	5.6	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Manganese	420		0.45	0.23	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Nickel	21		0.45	0.22	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Potassium	2500		45	18	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Selenium	0.50		0.45	0.11	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Silver	0.26		0.11	0.046	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Sodium	160		57	27	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Thallium	0.25		0.11	0.044	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Vanadium	42		0.91	0.23	mg/Kg	☼	07/23/24 06:30	07/25/24 12:43	2
Zinc	250		170	23	mg/Kg	☼	07/23/24 06:30	07/25/24 12:45	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.069	0.023	mg/Kg	☼	07/23/24 22:00	07/24/24 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	5.0	1.7	mg/Kg	☼	07/23/24 18:44	07/23/24 22:40	10
Cr (III) (SW846 7199 CR3)	100	!	0.012	0.0041	mg/Kg	☼		07/23/24 10:32	1
Percent Moisture (EPA Moisture)	14.4	!	1.0	1.0	%			07/23/24 09:39	1

Client Sample ID: DEP51-W1

Lab Sample ID: 410-180859-13

Date Collected: 07/22/24 12:05
Matrix: Water
Date Received: 07/22/24 16:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 12:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/23/24 12:35	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 12:35	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 12:35	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 12:35	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 12:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			07/23/24 12:35	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			07/23/24 12:35	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			07/23/24 12:35	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 12:35	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/23/24 12:35	1

Client Sample ID: DEP51-W1
Date Collected: 07/22/24 12:05
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			07/23/24 12:35	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 12:35	1
2-Butanone	ND	^c cn	10	0.50	ug/L			07/23/24 12:35	1
2-Hexanone	ND		10	0.85	ug/L			07/23/24 12:35	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			07/23/24 12:35	1
Acetone	ND		20	0.70	ug/L			07/23/24 12:35	1
Benzene	ND		1.0	0.30	ug/L			07/23/24 12:35	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/23/24 12:35	1
Bromoform	ND		4.0	1.0	ug/L			07/23/24 12:35	1
Bromomethane	ND		1.0	0.30	ug/L			07/23/24 12:35	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/23/24 12:35	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/23/24 12:35	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/23/24 12:35	1
Chloroethane	ND		1.0	0.30	ug/L			07/23/24 12:35	1
Chloroform	ND		1.0	0.30	ug/L			07/23/24 12:35	1
Chloromethane	ND		2.0	0.55	ug/L			07/23/24 12:35	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 12:35	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 12:35	1
Cyclohexane	ND		5.0	1.0	ug/L			07/23/24 12:35	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/23/24 12:35	1
Dichlorodifluoromethane	ND		1.0	0.30	ug/L			07/23/24 12:35	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/23/24 12:35	1
Freon 113	ND		10	0.30	ug/L			07/23/24 12:35	1
Isopropylbenzene	ND		5.0	0.30	ug/L			07/23/24 12:35	1
Methyl acetate	ND		5.0	0.30	ug/L			07/23/24 12:35	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/23/24 12:35	1
Methylcyclohexane	ND		5.0	0.50	ug/L			07/23/24 12:35	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/23/24 12:35	1
Styrene	ND		5.0	0.30	ug/L			07/23/24 12:35	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/23/24 12:35	1
Toluene	ND		1.0	0.30	ug/L			07/23/24 12:35	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/23/24 12:35	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 12:35	1
Trichloroethene	ND		1.0	0.30	ug/L			07/23/24 12:35	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			07/23/24 12:35	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/23/24 12:35	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/23/24 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*07/23/24 12:35*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*07/23/24 12:35*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*07/23/24 12:35*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*07/23/24 12:35*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		26	12	ug/L		07/23/24 23:30	07/24/24 20:40	1
Antimony	**0.52**	**J**	1.0	0.21	ug/L		07/23/24 23:30	07/24/24 20:40	1
Arsenic	**1.1**	**J**	2.1	0.70	ug/L		07/23/24 23:30	07/24/24 20:40	1
Barium	**44**		2.1	0.77	ug/L		07/23/24 23:30	07/24/24 20:40	1

Client Sample ID: DEP51-W1

Lab Sample ID: 410-180859-13

Date Collected: 07/22/24 12:05

Matrix: Water

Date Received: 07/22/24 16:10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.52	0.12	ug/L		07/23/24 23:30	07/24/24 20:40	1
Cadmium	ND		0.52	0.16	ug/L		07/23/24 23:30	07/24/24 20:40	1
Calcium	**32000**		120	52	ug/L		07/23/24 23:30	07/24/24 20:40	1
Chromium	ND		2.1	0.57	ug/L		07/23/24 23:30	07/24/24 20:40	1
Cobalt	**0.24**	**J**	0.52	0.16	ug/L		07/23/24 23:30	07/24/24 21:10	1
Copper	**2.2**		1.0	0.37	ug/L		07/23/24 23:30	07/24/24 20:40	1
Iron	**36**	**J**	52	21	ug/L		07/23/24 23:30	07/24/24 20:40	1
Lead	ND		0.52	0.12	ug/L		07/23/24 23:30	07/24/24 20:40	1
Magnesium	**12000**		52	16	ug/L		07/23/24 23:30	07/24/24 20:40	1
Manganese	**6.3**		2.1	0.98	ug/L		07/23/24 23:30	07/24/24 21:10	1
Nickel	**1.4**		1.0	0.41	ug/L		07/23/24 23:30	07/24/24 20:40	1
Potassium	**4000**		210	67	ug/L		07/23/24 23:30	07/24/24 20:40	1
Selenium	ND		1.0	0.29	ug/L		07/23/24 23:30	07/24/24 20:40	1
Silver	ND		0.52	0.10	ug/L		07/23/24 23:30	07/24/24 20:40	1
Sodium	**29000**	**^2**	210	93	ug/L		07/23/24 23:30	07/24/24 20:40	1
Thallium	ND		0.52	0.13	ug/L		07/23/24 23:30	07/24/24 20:40	1
Vanadium	**1.3**	**J**	4.1	0.82	ug/L		07/23/24 23:30	07/24/24 20:40	1
Zinc	ND		10	4.1	ug/L		07/23/24 23:30	07/24/24 20:40	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		07/23/24 23:00	07/24/24 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7199 CR3)	ND	!	10	5.0	ug/L			07/23/24 10:32	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.030	0.010	mg/L			07/22/24 22:46	1

Client Sample ID: DUP-W

Lab Sample ID: 410-180859-14

Date Collected: 07/22/24 00:00

Matrix: Water

Date Received: 07/22/24 16:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 12:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/23/24 12:54	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 12:54	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 12:54	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 12:54	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 12:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			07/23/24 12:54	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			07/23/24 12:54	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			07/23/24 12:54	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 12:54	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/23/24 12:54	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			07/23/24 12:54	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 12:54	1
2-Butanone	ND	^c cn	10	0.50	ug/L			07/23/24 12:54	1

Client Sample ID: DUP-W
Date Collected: 07/22/24 00:00
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10	0.85	ug/L			07/23/24 12:54	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			07/23/24 12:54	1
Acetone	ND		20	0.70	ug/L			07/23/24 12:54	1
Benzene	ND		1.0	0.30	ug/L			07/23/24 12:54	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/23/24 12:54	1
Bromoform	ND		4.0	1.0	ug/L			07/23/24 12:54	1
Bromomethane	ND		1.0	0.30	ug/L			07/23/24 12:54	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/23/24 12:54	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/23/24 12:54	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/23/24 12:54	1
Chloroethane	ND		1.0	0.30	ug/L			07/23/24 12:54	1
Chloroform	ND		1.0	0.30	ug/L			07/23/24 12:54	1
Chloromethane	ND		2.0	0.55	ug/L			07/23/24 12:54	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 12:54	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 12:54	1
Cyclohexane	ND		5.0	1.0	ug/L			07/23/24 12:54	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/23/24 12:54	1
Dichlorodifluoromethane	ND		1.0	0.30	ug/L			07/23/24 12:54	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/23/24 12:54	1
Freon 113	ND		10	0.30	ug/L			07/23/24 12:54	1
Isopropylbenzene	ND		5.0	0.30	ug/L			07/23/24 12:54	1
Methyl acetate	ND		5.0	0.30	ug/L			07/23/24 12:54	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/23/24 12:54	1
Methylcyclohexane	ND		5.0	0.50	ug/L			07/23/24 12:54	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/23/24 12:54	1
Styrene	ND		5.0	0.30	ug/L			07/23/24 12:54	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/23/24 12:54	1
Toluene	ND		1.0	0.30	ug/L			07/23/24 12:54	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/23/24 12:54	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 12:54	1
Trichloroethene	ND		1.0	0.30	ug/L			07/23/24 12:54	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			07/23/24 12:54	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/23/24 12:54	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/23/24 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*07/23/24 12:54*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*07/23/24 12:54*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*07/23/24 12:54*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/23/24 12:54*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		26	12	ug/L		07/23/24 23:30	07/24/24 20:38	1
Antimony	**0.55**	**J**	1.0	0.21	ug/L		07/23/24 23:30	07/24/24 20:38	1
Arsenic	**1.2**	**J**	2.1	0.70	ug/L		07/23/24 23:30	07/24/24 20:38	1
Barium	**44**		2.1	0.77	ug/L		07/23/24 23:30	07/24/24 20:38	1
Beryllium	ND		0.52	0.12	ug/L		07/23/24 23:30	07/24/24 20:38	1
Cadmium	ND		0.52	0.16	ug/L		07/23/24 23:30	07/24/24 20:38	1
Calcium	**32000**		120	52	ug/L		07/23/24 23:30	07/24/24 20:38	1

Client Sample ID: DUP-W

Lab Sample ID: 410-180859-14

Date Collected: 07/22/24 00:00

Matrix: Water

Date Received: 07/22/24 16:10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		2.1	0.57	ug/L		07/23/24 23:30	07/24/24 20:38	1
Cobalt	**0.43**	**J**	0.52	0.16	ug/L		07/23/24 23:30	07/24/24 21:07	1
Copper	**3.3**		1.0	0.37	ug/L		07/23/24 23:30	07/24/24 20:38	1
Iron	**33**	**J**	52	21	ug/L		07/23/24 23:30	07/24/24 20:38	1
Lead	**0.35**	**J**	0.52	0.12	ug/L		07/23/24 23:30	07/24/24 20:38	1
Magnesium	**12000**		52	16	ug/L		07/23/24 23:30	07/24/24 20:38	1
Manganese	**6.5**		2.1	0.98	ug/L		07/23/24 23:30	07/24/24 21:07	1
Nickel	**1.5**		1.0	0.41	ug/L		07/23/24 23:30	07/24/24 20:38	1
Potassium	**4000**		210	67	ug/L		07/23/24 23:30	07/24/24 20:38	1
Selenium	**0.29**	**J**	1.0	0.29	ug/L		07/23/24 23:30	07/24/24 20:38	1
Silver	ND		0.52	0.10	ug/L		07/23/24 23:30	07/24/24 20:38	1
Sodium	**29000**	**^2**	210	93	ug/L		07/23/24 23:30	07/24/24 20:38	1
Thallium	ND		0.52	0.13	ug/L		07/23/24 23:30	07/24/24 20:38	1
Vanadium	**1.3**	**J**	4.1	0.82	ug/L		07/23/24 23:30	07/24/24 20:38	1
Zinc	**8.0**	**J**	10	4.1	ug/L		07/23/24 23:30	07/24/24 20:38	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		07/23/24 23:00	07/24/24 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7199 CR3)	ND	!	10	5.0	ug/L			07/23/24 10:32	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.030	0.010	mg/L			07/22/24 22:46	1

Client Sample ID: DEP51-W2

Lab Sample ID: 410-180859-15

Date Collected: 07/22/24 12:10

Matrix: Water

Date Received: 07/22/24 16:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 13:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/23/24 13:14	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 13:14	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 13:14	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 13:14	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 13:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			07/23/24 13:14	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			07/23/24 13:14	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			07/23/24 13:14	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 13:14	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/23/24 13:14	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			07/23/24 13:14	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 13:14	1
2-Butanone	ND	^c cn	10	0.50	ug/L			07/23/24 13:14	1
2-Hexanone	ND		10	0.85	ug/L			07/23/24 13:14	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			07/23/24 13:14	1
Acetone	ND		20	0.70	ug/L			07/23/24 13:14	1

Client Sample ID: DEP51-W2
Date Collected: 07/22/24 12:10
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-15
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/23/24 13:14	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/23/24 13:14	1
Bromoform	ND		4.0	1.0	ug/L			07/23/24 13:14	1
Bromomethane	ND		1.0	0.30	ug/L			07/23/24 13:14	1
Carbon disulfide	**1.5**	**J**	5.0	0.30	ug/L			07/23/24 13:14	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/23/24 13:14	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/23/24 13:14	1
Chloroethane	ND		1.0	0.30	ug/L			07/23/24 13:14	1
Chloroform	ND		1.0	0.30	ug/L			07/23/24 13:14	1
Chloromethane	ND		2.0	0.55	ug/L			07/23/24 13:14	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 13:14	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 13:14	1
Cyclohexane	ND		5.0	1.0	ug/L			07/23/24 13:14	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/23/24 13:14	1
Dichlorodifluoromethane	ND		1.0	0.30	ug/L			07/23/24 13:14	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/23/24 13:14	1
Freon 113	ND		10	0.30	ug/L			07/23/24 13:14	1
Isopropylbenzene	ND		5.0	0.30	ug/L			07/23/24 13:14	1
Methyl acetate	ND		5.0	0.30	ug/L			07/23/24 13:14	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/23/24 13:14	1
Methylcyclohexane	ND		5.0	0.50	ug/L			07/23/24 13:14	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/23/24 13:14	1
Styrene	ND		5.0	0.30	ug/L			07/23/24 13:14	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/23/24 13:14	1
Toluene	ND		1.0	0.30	ug/L			07/23/24 13:14	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/23/24 13:14	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 13:14	1
Trichloroethene	ND		1.0	0.30	ug/L			07/23/24 13:14	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			07/23/24 13:14	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/23/24 13:14	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/23/24 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/23/24 13:14*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*07/23/24 13:14*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*07/23/24 13:14*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/23/24 13:14*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		26	12	ug/L		07/23/24 23:30	07/24/24 20:46	1
Antimony	**0.47**	**J**	1.0	0.21	ug/L		07/23/24 23:30	07/24/24 20:46	1
Arsenic	**1.0**	**J**	2.1	0.70	ug/L		07/23/24 23:30	07/24/24 20:46	1
Barium	**43**		2.1	0.77	ug/L		07/23/24 23:30	07/24/24 20:46	1
Beryllium	ND		0.52	0.12	ug/L		07/23/24 23:30	07/24/24 20:46	1
Cadmium	ND		0.52	0.16	ug/L		07/23/24 23:30	07/24/24 20:46	1
Calcium	**33000**		120	52	ug/L		07/23/24 23:30	07/24/24 20:46	1
Chromium	ND		2.1	0.57	ug/L		07/23/24 23:30	07/24/24 20:46	1
Cobalt	ND		0.52	0.16	ug/L		07/23/24 23:30	07/24/24 20:46	1
Copper	**2.0**		1.0	0.37	ug/L		07/23/24 23:30	07/24/24 20:46	1

Client Sample ID: DEP51-W2

Lab Sample ID: 410-180859-15

Date Collected: 07/22/24 12:10

Matrix: Water

Date Received: 07/22/24 16:10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		52	21	ug/L		07/23/24 23:30	07/24/24 20:46	1
Lead	ND		0.52	0.12	ug/L		07/23/24 23:30	07/24/24 20:46	1
Magnesium	**13000**		52	16	ug/L		07/23/24 23:30	07/24/24 20:46	1
Manganese	**5.6**		2.1	0.98	ug/L		07/23/24 23:30	07/24/24 21:15	1
Nickel	**0.92**	**J**	1.0	0.41	ug/L		07/23/24 23:30	07/24/24 20:46	1
Potassium	**4100**		210	67	ug/L		07/23/24 23:30	07/24/24 20:46	1
Selenium	ND		1.0	0.29	ug/L		07/23/24 23:30	07/24/24 20:46	1
Silver	ND		0.52	0.10	ug/L		07/23/24 23:30	07/24/24 20:46	1
Sodium	**30000**	**^2**	210	93	ug/L		07/23/24 23:30	07/24/24 20:46	1
Thallium	ND		0.52	0.13	ug/L		07/23/24 23:30	07/24/24 20:46	1
Vanadium	**1.1**	**J**	4.1	0.82	ug/L		07/23/24 23:30	07/24/24 20:46	1
Zinc	**4.5**	**J**	10	4.1	ug/L		07/23/24 23:30	07/24/24 20:46	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		07/23/24 23:00	07/24/24 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7199 CR3)	ND	!	10	5.0	ug/L			07/23/24 10:32	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.030	0.010	mg/L			07/22/24 22:46	1

Client Sample ID: DEP51-W3

Lab Sample ID: 410-180859-16

Date Collected: 07/22/24 12:15

Matrix: Water

Date Received: 07/22/24 16:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 13:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/23/24 13:34	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 13:34	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 13:34	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 13:34	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 13:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			07/23/24 13:34	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			07/23/24 13:34	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			07/23/24 13:34	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 13:34	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/23/24 13:34	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			07/23/24 13:34	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 13:34	1
2-Butanone	ND	^c cn	10	0.50	ug/L			07/23/24 13:34	1
2-Hexanone	ND		10	0.85	ug/L			07/23/24 13:34	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			07/23/24 13:34	1
Acetone	ND		20	0.70	ug/L			07/23/24 13:34	1
Benzene	ND		1.0	0.30	ug/L			07/23/24 13:34	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/23/24 13:34	1
Bromoform	ND		4.0	1.0	ug/L			07/23/24 13:34	1

Client Sample ID: DEP51-W3
Date Collected: 07/22/24 12:15
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0	0.30	ug/L			07/23/24 13:34	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/23/24 13:34	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/23/24 13:34	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/23/24 13:34	1
Chloroethane	ND		1.0	0.30	ug/L			07/23/24 13:34	1
Chloroform	ND		1.0	0.30	ug/L			07/23/24 13:34	1
Chloromethane	ND		2.0	0.55	ug/L			07/23/24 13:34	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 13:34	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 13:34	1
Cyclohexane	ND		5.0	1.0	ug/L			07/23/24 13:34	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/23/24 13:34	1
Dichlorodifluoromethane	ND		1.0	0.30	ug/L			07/23/24 13:34	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/23/24 13:34	1
Freon 113	ND		10	0.30	ug/L			07/23/24 13:34	1
Isopropylbenzene	ND		5.0	0.30	ug/L			07/23/24 13:34	1
Methyl acetate	ND		5.0	0.30	ug/L			07/23/24 13:34	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/23/24 13:34	1
Methylcyclohexane	ND		5.0	0.50	ug/L			07/23/24 13:34	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/23/24 13:34	1
Styrene	ND		5.0	0.30	ug/L			07/23/24 13:34	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/23/24 13:34	1
Toluene	ND		1.0	0.30	ug/L			07/23/24 13:34	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/23/24 13:34	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 13:34	1
Trichloroethene	ND		1.0	0.30	ug/L			07/23/24 13:34	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			07/23/24 13:34	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/23/24 13:34	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/23/24 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*07/23/24 13:34*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*07/23/24 13:34*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*07/23/24 13:34*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*07/23/24 13:34*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		26	12	ug/L		07/23/24 23:30	07/24/24 20:44	1
Antimony	**0.50**	**J**	1.0	0.21	ug/L		07/23/24 23:30	07/24/24 20:44	1
Arsenic	**0.96**	**J**	2.1	0.70	ug/L		07/23/24 23:30	07/24/24 20:44	1
Barium	**45**		2.1	0.77	ug/L		07/23/24 23:30	07/24/24 20:44	1
Beryllium	ND		0.52	0.12	ug/L		07/23/24 23:30	07/24/24 20:44	1
Cadmium	ND		0.52	0.16	ug/L		07/23/24 23:30	07/24/24 20:44	1
Calcium	**32000**		120	52	ug/L		07/23/24 23:30	07/24/24 20:44	1
Chromium	ND		2.1	0.57	ug/L		07/23/24 23:30	07/24/24 20:44	1
Cobalt	ND		0.52	0.16	ug/L		07/23/24 23:30	07/24/24 20:44	1
Copper	**1.9**		1.0	0.37	ug/L		07/23/24 23:30	07/24/24 20:44	1
Iron	ND		52	21	ug/L		07/23/24 23:30	07/24/24 20:44	1
Lead	ND		0.52	0.12	ug/L		07/23/24 23:30	07/24/24 20:44	1
Magnesium	**13000**		52	16	ug/L		07/23/24 23:30	07/24/24 20:44	1

Client Sample ID: DEP51-W3

Lab Sample ID: 410-180859-16

Date Collected: 07/22/24 12:15

Matrix: Water

Date Received: 07/22/24 16:10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**5.7**		2.1	0.98	ug/L		07/23/24 23:30	07/24/24 21:13	1
Nickel	**1.3**		1.0	0.41	ug/L		07/23/24 23:30	07/24/24 20:44	1
Potassium	**4000**		210	67	ug/L		07/23/24 23:30	07/24/24 20:44	1
Selenium	**0.31**	**J**	1.0	0.29	ug/L		07/23/24 23:30	07/24/24 20:44	1
Silver	ND		0.52	0.10	ug/L		07/23/24 23:30	07/24/24 20:44	1
Sodium	**29000**	**^2**	210	93	ug/L		07/23/24 23:30	07/24/24 20:44	1
Thallium	ND		0.52	0.13	ug/L		07/23/24 23:30	07/24/24 20:44	1
Vanadium	**1.1**	**J**	4.1	0.82	ug/L		07/23/24 23:30	07/24/24 20:44	1
Zinc	ND		10	4.1	ug/L		07/23/24 23:30	07/24/24 20:44	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		07/23/24 23:00	07/24/24 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7199 CR3)	ND	!	10	5.0	ug/L			07/23/24 10:32	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.030	0.010	mg/L			07/22/24 22:46	1

Client Sample ID: DEP51-W4

Lab Sample ID: 410-180859-17

Date Collected: 07/22/24 13:00

Matrix: Water

Date Received: 07/22/24 16:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 13:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/23/24 13:53	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 13:53	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 13:53	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 13:53	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 13:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			07/23/24 13:53	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			07/23/24 13:53	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			07/23/24 13:53	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 13:53	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/23/24 13:53	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			07/23/24 13:53	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 13:53	1
2-Butanone	ND	^c cn	10	0.50	ug/L			07/23/24 13:53	1
2-Hexanone	ND		10	0.85	ug/L			07/23/24 13:53	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			07/23/24 13:53	1
Acetone	ND		20	0.70	ug/L			07/23/24 13:53	1
Benzene	ND		1.0	0.30	ug/L			07/23/24 13:53	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/23/24 13:53	1
Bromoform	ND		4.0	1.0	ug/L			07/23/24 13:53	1
Bromomethane	ND		1.0	0.30	ug/L			07/23/24 13:53	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/23/24 13:53	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/23/24 13:53	1

Client Sample ID: DEP51-W4
Date Collected: 07/22/24 13:00
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.30	ug/L			07/23/24 13:53	1
Chloroethane	ND		1.0	0.30	ug/L			07/23/24 13:53	1
Chloroform	ND		1.0	0.30	ug/L			07/23/24 13:53	1
Chloromethane	ND		2.0	0.55	ug/L			07/23/24 13:53	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 13:53	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 13:53	1
Cyclohexane	ND		5.0	1.0	ug/L			07/23/24 13:53	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/23/24 13:53	1
Dichlorodifluoromethane	ND		1.0	0.30	ug/L			07/23/24 13:53	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/23/24 13:53	1
Freon 113	ND		10	0.30	ug/L			07/23/24 13:53	1
Isopropylbenzene	ND		5.0	0.30	ug/L			07/23/24 13:53	1
Methyl acetate	ND		5.0	0.30	ug/L			07/23/24 13:53	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/23/24 13:53	1
Methylcyclohexane	ND		5.0	0.50	ug/L			07/23/24 13:53	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/23/24 13:53	1
Styrene	ND		5.0	0.30	ug/L			07/23/24 13:53	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/23/24 13:53	1
Toluene	ND		1.0	0.30	ug/L			07/23/24 13:53	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/23/24 13:53	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 13:53	1
Trichloroethene	ND		1.0	0.30	ug/L			07/23/24 13:53	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			07/23/24 13:53	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/23/24 13:53	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/23/24 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*07/23/24 13:53*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*07/23/24 13:53*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*07/23/24 13:53*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/23/24 13:53*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		26	12	ug/L		07/23/24 23:30	07/24/24 20:42	1
Antimony	**0.42**	**J**	1.0	0.21	ug/L		07/23/24 23:30	07/24/24 20:42	1
Arsenic	**1.0**	**J**	2.1	0.70	ug/L		07/23/24 23:30	07/24/24 20:42	1
Barium	**44**		2.1	0.77	ug/L		07/23/24 23:30	07/24/24 20:42	1
Beryllium	ND		0.52	0.12	ug/L		07/23/24 23:30	07/24/24 20:42	1
Cadmium	ND		0.52	0.16	ug/L		07/23/24 23:30	07/24/24 20:42	1
Calcium	**32000**		120	52	ug/L		07/23/24 23:30	07/24/24 20:42	1
Chromium	ND		2.1	0.57	ug/L		07/23/24 23:30	07/24/24 20:42	1
Cobalt	ND		0.52	0.16	ug/L		07/23/24 23:30	07/24/24 20:42	1
Copper	**2.1**		1.0	0.37	ug/L		07/23/24 23:30	07/24/24 20:42	1
Iron	**22**	**J**	52	21	ug/L		07/23/24 23:30	07/24/24 20:42	1
Lead	ND		0.52	0.12	ug/L		07/23/24 23:30	07/24/24 20:42	1
Magnesium	**12000**		52	16	ug/L		07/23/24 23:30	07/24/24 20:42	1
Manganese	**5.3**		2.1	0.98	ug/L		07/23/24 23:30	07/24/24 21:11	1
Nickel	**1.4**		1.0	0.41	ug/L		07/23/24 23:30	07/24/24 20:42	1
Potassium	**4000**		210	67	ug/L		07/23/24 23:30	07/24/24 20:42	1

Client Sample ID: DEP51-W4

Lab Sample ID: 410-180859-17

Date Collected: 07/22/24 13:00

Matrix: Water

Date Received: 07/22/24 16:10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		1.0	0.29	ug/L		07/23/24 23:30	07/24/24 20:42	1
Silver	ND		0.52	0.10	ug/L		07/23/24 23:30	07/24/24 20:42	1
Sodium	**30000**	**^2**	210	93	ug/L		07/23/24 23:30	07/24/24 20:42	1
Thallium	ND		0.52	0.13	ug/L		07/23/24 23:30	07/24/24 20:42	1
Vanadium	**1.1**	**J**	4.1	0.82	ug/L		07/23/24 23:30	07/24/24 20:42	1
Zinc	**4.3**	**J**	10	4.1	ug/L		07/23/24 23:30	07/24/24 20:42	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		07/23/24 23:00	07/24/24 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7199 CR3)	ND	!	10	5.0	ug/L			07/23/24 10:32	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.030	0.010	mg/L			07/22/24 23:04	1

Client Sample ID: Trip Blank 2

Lab Sample ID: 410-180859-18

Date Collected: 07/22/24 00:00

Matrix: Water

Date Received: 07/22/24 16:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 10:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/23/24 10:57	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 10:57	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 10:57	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 10:57	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 10:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			07/23/24 10:57	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			07/23/24 10:57	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			07/23/24 10:57	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 10:57	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/23/24 10:57	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			07/23/24 10:57	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 10:57	1
2-Butanone	ND	^c cn	10	0.50	ug/L			07/23/24 10:57	1
2-Hexanone	ND		10	0.85	ug/L			07/23/24 10:57	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			07/23/24 10:57	1
Acetone	ND		20	0.70	ug/L			07/23/24 10:57	1
Benzene	ND		1.0	0.30	ug/L			07/23/24 10:57	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/23/24 10:57	1
Bromoform	ND		4.0	1.0	ug/L			07/23/24 10:57	1
Bromomethane	ND		1.0	0.30	ug/L			07/23/24 10:57	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/23/24 10:57	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/23/24 10:57	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/23/24 10:57	1
Chloroethane	ND		1.0	0.30	ug/L			07/23/24 10:57	1
Chloroform	ND		1.0	0.30	ug/L			07/23/24 10:57	1

Client Sample ID: Trip Blank 2

Lab Sample ID: 410-180859-18

Date Collected: 07/22/24 00:00

Matrix: Water

Date Received: 07/22/24 16:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		2.0	0.55	ug/L			07/23/24 10:57	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 10:57	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 10:57	1
Cyclohexane	ND		5.0	1.0	ug/L			07/23/24 10:57	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/23/24 10:57	1
Dichlorodifluoromethane	ND		1.0	0.30	ug/L			07/23/24 10:57	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/23/24 10:57	1
Freon 113	ND		10	0.30	ug/L			07/23/24 10:57	1
Isopropylbenzene	ND		5.0	0.30	ug/L			07/23/24 10:57	1
Methyl acetate	ND		5.0	0.30	ug/L			07/23/24 10:57	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/23/24 10:57	1
Methylcyclohexane	ND		5.0	0.50	ug/L			07/23/24 10:57	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/23/24 10:57	1
Styrene	ND		5.0	0.30	ug/L			07/23/24 10:57	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/23/24 10:57	1
Toluene	ND		1.0	0.30	ug/L			07/23/24 10:57	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/23/24 10:57	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 10:57	1
Trichloroethene	ND		1.0	0.30	ug/L			07/23/24 10:57	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			07/23/24 10:57	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/23/24 10:57	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/23/24 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*07/23/24 10:57*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/23/24 10:57*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*07/23/24 10:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/23/24 10:57*	*1*

Client Sample ID: Trip Blank 1

Lab Sample ID: 410-180859-19

Date Collected: 07/22/24 00:00

Matrix: Water

Date Received: 07/22/24 16:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 11:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/23/24 11:17	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 11:17	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 11:17	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 11:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 11:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			07/23/24 11:17	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			07/23/24 11:17	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			07/23/24 11:17	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 11:17	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/23/24 11:17	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			07/23/24 11:17	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 11:17	1
2-Butanone	ND	^c cn	10	0.50	ug/L			07/23/24 11:17	1
2-Hexanone	ND		10	0.85	ug/L			07/23/24 11:17	1

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Client Sample ID: Trip Blank 1
Date Collected: 07/22/24 00:00
Date Received: 07/22/24 16:10

Lab Sample ID: 410-180859-19
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		10	0.50	ug/L			07/23/24 11:17	1
Acetone	ND		20	0.70	ug/L			07/23/24 11:17	1
Benzene	ND		1.0	0.30	ug/L			07/23/24 11:17	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/23/24 11:17	1
Bromoform	ND		4.0	1.0	ug/L			07/23/24 11:17	1
Bromomethane	ND		1.0	0.30	ug/L			07/23/24 11:17	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/23/24 11:17	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/23/24 11:17	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/23/24 11:17	1
Chloroethane	ND		1.0	0.30	ug/L			07/23/24 11:17	1
Chloroform	ND		1.0	0.30	ug/L			07/23/24 11:17	1
Chloromethane	ND		2.0	0.55	ug/L			07/23/24 11:17	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 11:17	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 11:17	1
Cyclohexane	ND		5.0	1.0	ug/L			07/23/24 11:17	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/23/24 11:17	1
Dichlorodifluoromethane	ND		1.0	0.30	ug/L			07/23/24 11:17	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/23/24 11:17	1
Freon 113	ND		10	0.30	ug/L			07/23/24 11:17	1
Isopropylbenzene	ND		5.0	0.30	ug/L			07/23/24 11:17	1
Methyl acetate	ND		5.0	0.30	ug/L			07/23/24 11:17	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/23/24 11:17	1
Methylcyclohexane	ND		5.0	0.50	ug/L			07/23/24 11:17	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/23/24 11:17	1
Styrene	ND		5.0	0.30	ug/L			07/23/24 11:17	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/23/24 11:17	1
Toluene	ND		1.0	0.30	ug/L			07/23/24 11:17	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/23/24 11:17	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 11:17	1
Trichloroethene	ND		1.0	0.30	ug/L			07/23/24 11:17	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			07/23/24 11:17	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/23/24 11:17	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/23/24 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*07/23/24 11:17*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*07/23/24 11:17*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*07/23/24 11:17*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*07/23/24 11:17*	*1*

Surrogate Summary

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(54-135)	(50-131)	(50-141)	(52-141)
410-180859-1	DEP51-S1	104	96	96	106
410-180859-2	DEP51-S2	106	95	95	105
410-180859-3	DEP51-S3	104	90	97	107
410-180859-4	DEP51-S4	102	87	96	112
410-180859-5	DEP51-S5	99	80	97	119
410-180859-6	DEP51-S6	102 cn	78 cn	98 cn	125 cn
410-180859-7	DEP51-S7	76 cn	69 cn	75 cn	73 cn
410-180859-8	DUP-S	70 cn	59 cn	71 cn	66 cn
410-180859-9	DEP51-S8	97 cn	81 cn	96 cn	119 cn
410-180859-10	DEP51-S9	101 cn	80 cn	96 cn	119 cn
410-180859-11	DEP51-S10	100 cn	76 cn	98 cn	126 cn
410-180859-12	DEP51-S11	100	80	98	120
LCS 410-531785/4	Lab Control Sample	97	100	94	103
LCS 410-532050/6	Lab Control Sample	101	100	103	100
LCSD 410-531785/5	Lab Control Sample Dup	99	99	95	102
LCSD 410-532050/8	Lab Control Sample Dup	95	94	97	95
MB 410-531785/7	Method Blank	98	99	95	103
MB 410-532050/7	Method Blank	102	98	101	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-180859-13	DEP51-W1	106	105	108	103
410-180859-14	DUP-W	105	106	109	101
410-180859-15	DEP51-W2	103	105	107	102
410-180859-16	DEP51-W3	104	106	108	103
410-180859-17	DEP51-W4	106	104	110	102
410-180859-18	Trip Blank 2	105	103	108	100
410-180859-19	Trip Blank 1	108	106	107	103
LCS 410-531308/4	Lab Control Sample	108	103	107	103
LCSD 410-531308/5	Lab Control Sample Dup	106	102	105	101
MB 410-531308/7	Method Blank	105	104	109	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-531308/7
Matrix: Water
Analysis Batch: 531308

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 10:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/23/24 10:38	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/23/24 10:38	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 10:38	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 10:38	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 10:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			07/23/24 10:38	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			07/23/24 10:38	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			07/23/24 10:38	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/23/24 10:38	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/23/24 10:38	1
1,3-Dichlorobenzene	ND		5.0	0.68	ug/L			07/23/24 10:38	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			07/23/24 10:38	1
2-Butanone	ND		10	0.50	ug/L			07/23/24 10:38	1
2-Hexanone	ND		10	0.85	ug/L			07/23/24 10:38	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			07/23/24 10:38	1
Acetone	ND		20	0.70	ug/L			07/23/24 10:38	1
Benzene	ND		1.0	0.30	ug/L			07/23/24 10:38	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/23/24 10:38	1
Bromoform	ND		4.0	1.0	ug/L			07/23/24 10:38	1
Bromomethane	ND		1.0	0.30	ug/L			07/23/24 10:38	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/23/24 10:38	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/23/24 10:38	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/23/24 10:38	1
Chloroethane	ND		1.0	0.30	ug/L			07/23/24 10:38	1
Chloroform	ND		1.0	0.30	ug/L			07/23/24 10:38	1
Chloromethane	ND		2.0	0.55	ug/L			07/23/24 10:38	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/23/24 10:38	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 10:38	1
Cyclohexane	ND		5.0	1.0	ug/L			07/23/24 10:38	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/23/24 10:38	1
Dichlorodifluoromethane	ND		1.0	0.30	ug/L			07/23/24 10:38	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/23/24 10:38	1
Freon 113	ND		10	0.30	ug/L			07/23/24 10:38	1
Isopropylbenzene	ND		5.0	0.30	ug/L			07/23/24 10:38	1
Methyl acetate	ND		5.0	0.30	ug/L			07/23/24 10:38	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/23/24 10:38	1
Methylcyclohexane	ND		5.0	0.50	ug/L			07/23/24 10:38	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/23/24 10:38	1
Styrene	ND		5.0	0.30	ug/L			07/23/24 10:38	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/23/24 10:38	1
Toluene	ND		1.0	0.30	ug/L			07/23/24 10:38	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/23/24 10:38	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/23/24 10:38	1
Trichloroethene	ND		1.0	0.30	ug/L			07/23/24 10:38	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			07/23/24 10:38	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/23/24 10:38	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/23/24 10:38	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-531308/7
Matrix: Water
Analysis Batch: 531308

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		07/23/24 10:38	1
4-Bromofluorobenzene (Surr)	104		80 - 120		07/23/24 10:38	1
Dibromofluoromethane (Surr)	109		80 - 120		07/23/24 10:38	1
Toluene-d8 (Surr)	101		80 - 120		07/23/24 10:38	1

Lab Sample ID: LCS 410-531308/4
Matrix: Water
Analysis Batch: 531308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	73 - 120
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		103	72 - 120
1,1,2-Trichloroethane	20.0	20.7		ug/L		103	80 - 120
1,1-Dichloroethane	20.0	21.6		ug/L		108	80 - 120
1,1-Dichloroethene	20.0	21.7		ug/L		109	80 - 131
1,2,4-Trichlorobenzene	20.0	22.2		ug/L		111	63 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/L		96	60 - 120
1,2-Dibromoethane	20.0	20.1		ug/L		100	77 - 120
1,2-Dichlorobenzene	20.0	21.4		ug/L		107	80 - 120
1,2-Dichloroethane	20.0	20.8		ug/L		104	73 - 124
1,2-Dichloropropane	20.0	20.7		ug/L		103	80 - 120
1,3-Dichlorobenzene	20.0	20.5		ug/L		102	80 - 120
1,4-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 120
2-Butanone	250	198		ug/L		79	59 - 135
2-Hexanone	250	266		ug/L		107	56 - 135
4-Methyl-2-pentanone	250	249		ug/L		100	62 - 133
Acetone	250	220		ug/L		88	57 - 143
Benzene	20.0	20.2		ug/L		101	80 - 120
Bromodichloromethane	20.0	19.2		ug/L		96	71 - 120
Bromoform	20.0	18.9		ug/L		95	51 - 120
Bromomethane	20.0	17.9		ug/L		90	53 - 128
Carbon disulfide	20.0	19.0		ug/L		95	65 - 128
Carbon tetrachloride	20.0	19.6		ug/L		98	64 - 134
Chlorobenzene	20.0	20.0		ug/L		100	80 - 120
Chloroethane	20.0	19.4		ug/L		97	55 - 123
Chloroform	20.0	19.9		ug/L		100	80 - 120
Chloromethane	20.0	19.2		ug/L		96	39 - 134
cis-1,2-Dichloroethene	20.0	21.8		ug/L		109	80 - 125
cis-1,3-Dichloropropene	20.0	16.5		ug/L		83	75 - 120
Cyclohexane	20.0	18.0		ug/L		90	68 - 126
Dibromochloromethane	20.0	19.9		ug/L		100	71 - 120
Dichlorodifluoromethane	20.0	18.0		ug/L		90	26 - 127
Ethylbenzene	20.0	21.0		ug/L		105	80 - 120
Freon 113	20.0	17.2		ug/L		86	57 - 122
Isopropylbenzene	20.0	23.4		ug/L		117	80 - 120
Methyl acetate	20.0	20.2		ug/L		101	48 - 168
Methyl tertiary butyl ether	20.0	21.4		ug/L		107	69 - 122
Methylcyclohexane	20.0	18.3		ug/L		91	67 - 121

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-531308/4
Matrix: Water
Analysis Batch: 531308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	20.0	21.2		ug/L		106	80 - 120
Styrene	20.0	20.9		ug/L		104	80 - 120
Tetrachloroethene	20.0	20.3		ug/L		101	80 - 120
Toluene	20.0	20.4		ug/L		102	80 - 120
trans-1,2-Dichloroethene	20.0	20.9		ug/L		105	80 - 126
trans-1,3-Dichloropropene	20.0	16.8		ug/L		84	67 - 120
Trichloroethene	20.0	19.2		ug/L		96	80 - 120
Trichlorofluoromethane	20.0	18.2		ug/L		91	51 - 120
Vinyl chloride	20.0	19.2		ug/L		96	56 - 120
Xylenes, Total	60.0	62.5		ug/L		104	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 410-531308/5
Matrix: Water
Analysis Batch: 531308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	73 - 120	1	30
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	72 - 120	2	30
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	80 - 120	1	30
1,1-Dichloroethane	20.0	21.7		ug/L		108	80 - 120	0	30
1,1-Dichloroethene	20.0	21.8		ug/L		109	80 - 131	0	30
1,2,4-Trichlorobenzene	20.0	21.2		ug/L		106	63 - 120	5	30
1,2-Dibromo-3-Chloropropane	20.0	18.3		ug/L		91	60 - 120	5	30
1,2-Dibromoethane	20.0	19.6		ug/L		98	77 - 120	2	30
1,2-Dichlorobenzene	20.0	20.9		ug/L		105	80 - 120	2	30
1,2-Dichloroethane	20.0	20.7		ug/L		103	73 - 124	1	30
1,2-Dichloropropane	20.0	21.0		ug/L		105	80 - 120	2	30
1,3-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 120	1	30
1,4-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 120	1	30
2-Butanone	250	200		ug/L		80	59 - 135	1	30
2-Hexanone	250	267		ug/L		107	56 - 135	0	30
4-Methyl-2-pentanone	250	247		ug/L		99	62 - 133	1	30
Acetone	250	237		ug/L		95	57 - 143	7	30
Benzene	20.0	20.4		ug/L		102	80 - 120	1	30
Bromodichloromethane	20.0	19.3		ug/L		96	71 - 120	0	30
Bromoform	20.0	18.7		ug/L		94	51 - 120	1	30
Bromomethane	20.0	17.9		ug/L		90	53 - 128	0	30
Carbon disulfide	20.0	18.8		ug/L		94	65 - 128	1	30
Carbon tetrachloride	20.0	19.3		ug/L		96	64 - 134	2	30
Chlorobenzene	20.0	19.9		ug/L		99	80 - 120	1	30
Chloroethane	20.0	19.9		ug/L		100	55 - 123	2	30
Chloroform	20.0	20.0		ug/L		100	80 - 120	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-531308/5
Matrix: Water
Analysis Batch: 531308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			20.0	19.3		ug/L		96	39 - 134	0	30
cis-1,2-Dichloroethene			20.0	21.6		ug/L		108	80 - 125	1	30
cis-1,3-Dichloropropene			20.0	16.5		ug/L		82	75 - 120	0	30
Cyclohexane			20.0	18.3		ug/L		92	68 - 126	2	30
Dibromochloromethane			20.0	19.2		ug/L		96	71 - 120	4	30
Dichlorodifluoromethane			20.0	18.3		ug/L		91	26 - 127	2	30
Ethylbenzene			20.0	21.2		ug/L		106	80 - 120	1	30
Freon 113			20.0	17.2		ug/L		86	57 - 122	0	30
Isopropylbenzene			20.0	24.1		ug/L		120	80 - 120	3	30
Methyl acetate			20.0	20.9		ug/L		104	48 - 168	3	30
Methyl tertiary butyl ether			20.0	20.9		ug/L		104	69 - 122	2	30
Methylcyclohexane			20.0	18.6		ug/L		93	67 - 121	2	30
Methylene Chloride			20.0	21.4		ug/L		107	80 - 120	1	30
Styrene			20.0	21.1		ug/L		106	80 - 120	1	30
Tetrachloroethene			20.0	20.4		ug/L		102	80 - 120	1	30
Toluene			20.0	20.5		ug/L		103	80 - 120	1	30
trans-1,2-Dichloroethene			20.0	21.3		ug/L		106	80 - 126	2	30
trans-1,3-Dichloropropene			20.0	16.8		ug/L		84	67 - 120	0	30
Trichloroethene			20.0	19.5		ug/L		97	80 - 120	1	30
Trichlorofluoromethane			20.0	18.5		ug/L		92	51 - 120	2	30
Vinyl chloride			20.0	19.5		ug/L		98	56 - 120	1	30
Xylenes, Total			60.0	63.3		ug/L		106	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 410-531785/7
Matrix: Solid
Analysis Batch: 531785

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
1,1,2-Trichloroethane	ND		5.0	0.70	ug/Kg			07/24/24 13:05	1
1,1-Dichloroethane	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
1,1-Dichloroethene	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
1,2,4-Trichlorobenzene	ND		10	5.0	ug/Kg			07/24/24 13:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
1,2-Dibromoethane	ND		5.0	0.70	ug/Kg			07/24/24 13:05	1
1,2-Dichlorobenzene	ND		5.0	0.90	ug/Kg			07/24/24 13:05	1
1,2-Dichloroethane	ND		5.0	0.60	ug/Kg			07/24/24 13:05	1
1,2-Dichloropropane	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
1,3-Dichlorobenzene	ND		5.0	1.0	ug/Kg			07/24/24 13:05	1
1,4-Dichlorobenzene	ND		5.0	0.90	ug/Kg			07/24/24 13:05	1
2-Butanone	ND		10	2.0	ug/Kg			07/24/24 13:05	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-531785/7
Matrix: Solid
Analysis Batch: 531785

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10	2.5	ug/Kg			07/24/24 13:05	1
4-Methyl-2-pentanone	ND		10	2.0	ug/Kg			07/24/24 13:05	1
Acetone	ND		20	6.0	ug/Kg			07/24/24 13:05	1
Benzene	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
Bromodichloromethane	ND		5.0	0.70	ug/Kg			07/24/24 13:05	1
Bromoform	ND		10	5.0	ug/Kg			07/24/24 13:05	1
Bromomethane	ND		5.0	1.0	ug/Kg			07/24/24 13:05	1
Carbon disulfide	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
Carbon tetrachloride	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
Chlorobenzene	ND		5.0	0.90	ug/Kg			07/24/24 13:05	1
Chloroethane	ND		5.0	1.0	ug/Kg			07/24/24 13:05	1
Chloroform	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
Chloromethane	ND		5.0	1.0	ug/Kg			07/24/24 13:05	1
cis-1,2-Dichloroethene	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
cis-1,3-Dichloropropene	ND		5.0	0.60	ug/Kg			07/24/24 13:05	1
Cyclohexane	ND		5.0	0.90	ug/Kg			07/24/24 13:05	1
Dibromochloromethane	ND		5.0	0.50	ug/Kg			07/24/24 13:05	1
Dichlorodifluoromethane	ND		5.0	1.0	ug/Kg			07/24/24 13:05	1
Ethylbenzene	ND		5.0	1.0	ug/Kg			07/24/24 13:05	1
Freon 113	ND		10	0.90	ug/Kg			07/24/24 13:05	1
Isopropylbenzene	ND		5.0	1.5	ug/Kg			07/24/24 13:05	1
Methyl acetate	ND		5.0	1.0	ug/Kg			07/24/24 13:05	1
Methyl tertiary butyl ether	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
Methylcyclohexane	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
Methylene Chloride	ND		5.0	2.0	ug/Kg			07/24/24 13:05	1
Styrene	ND		5.0	0.90	ug/Kg			07/24/24 13:05	1
Tetrachloroethene	ND		5.0	1.5	ug/Kg			07/24/24 13:05	1
Toluene	ND		5.0	1.0	ug/Kg			07/24/24 13:05	1
trans-1,2-Dichloroethene	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
trans-1,3-Dichloropropene	ND		5.0	0.60	ug/Kg			07/24/24 13:05	1
Trichloroethene	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			07/24/24 13:05	1
Vinyl chloride	ND		5.0	0.80	ug/Kg			07/24/24 13:05	1
Xylenes, Total	ND		10	0.70	ug/Kg			07/24/24 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*54 - 135*		*07/24/24 13:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*50 - 131*		*07/24/24 13:05*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 141*		*07/24/24 13:05*	*1*
Toluene-d8 (Surr)	*103*		*52 - 141*		*07/24/24 13:05*	*1*

Lab Sample ID: LCS 410-531785/4
Matrix: Solid
Analysis Batch: 531785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	17.2		ug/Kg		86	69 - 123		
1,1,2,2-Tetrachloroethane			20.0	18.1		ug/Kg		90	69 - 125		

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-531785/4
Matrix: Solid
Analysis Batch: 531785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	17.7		ug/Kg		89	80 - 120
1,1-Dichloroethane	20.0	17.8		ug/Kg		89	79 - 120
1,1-Dichloroethene	20.0	18.2		ug/Kg		91	73 - 129
1,2,4-Trichlorobenzene	20.0	17.4		ug/Kg		87	56 - 130
1,2-Dibromo-3-Chloropropane	20.0	16.3		ug/Kg		81	48 - 134
1,2-Dibromoethane	20.0	17.2		ug/Kg		86	76 - 120
1,2-Dichlorobenzene	20.0	18.1		ug/Kg		90	76 - 120
1,2-Dichloroethane	20.0	16.9		ug/Kg		85	71 - 128
1,2-Dichloropropane	20.0	17.7		ug/Kg		89	80 - 120
1,3-Dichlorobenzene	20.0	18.0		ug/Kg		90	75 - 120
1,4-Dichlorobenzene	20.0	17.9		ug/Kg		90	80 - 120
2-Butanone	250	234		ug/Kg		93	57 - 128
2-Hexanone	250	204		ug/Kg		82	54 - 140
4-Methyl-2-pentanone	250	201		ug/Kg		80	67 - 128
Acetone	250	220		ug/Kg		88	41 - 150
Benzene	20.0	17.1		ug/Kg		86	80 - 120
Bromodichloromethane	20.0	17.1		ug/Kg		85	70 - 120
Bromoform	20.0	17.0		ug/Kg		85	51 - 127
Bromomethane	20.0	13.2		ug/Kg		66	45 - 140
Carbon disulfide	20.0	15.9		ug/Kg		80	64 - 133
Carbon tetrachloride	20.0	17.0		ug/Kg		85	64 - 134
Chlorobenzene	20.0	17.8		ug/Kg		89	80 - 120
Chloroethane	20.0	14.5		ug/Kg		72	43 - 135
Chloroform	20.0	16.4		ug/Kg		82	80 - 120
Chloromethane	20.0	12.6		ug/Kg		63	56 - 120
cis-1,2-Dichloroethene	20.0	17.3		ug/Kg		86	80 - 125
cis-1,3-Dichloropropene	20.0	16.4		ug/Kg		82	66 - 120
Cyclohexane	20.0	15.9		ug/Kg		80	58 - 126
Dibromochloromethane	20.0	17.4		ug/Kg		87	69 - 125
Dichlorodifluoromethane	20.0	10.9		ug/Kg		54	21 - 127
Ethylbenzene	20.0	18.3		ug/Kg		92	78 - 120
Freon 113	20.0	14.5		ug/Kg		73	64 - 135
Isopropylbenzene	20.0	19.6		ug/Kg		98	77 - 120
Methyl acetate	20.0	15.9		ug/Kg		79	67 - 128
Methyl tertiary butyl ether	20.0	15.8		ug/Kg		79	72 - 120
Methylcyclohexane	20.0	15.2		ug/Kg		76	61 - 124
Methylene Chloride	20.0	17.5		ug/Kg		88	76 - 122
Styrene	20.0	17.9		ug/Kg		89	76 - 120
Tetrachloroethene	20.0	18.2		ug/Kg		91	73 - 120
Toluene	20.0	17.9		ug/Kg		90	80 - 120
trans-1,2-Dichloroethene	20.0	17.9		ug/Kg		90	80 - 126
trans-1,3-Dichloropropene	20.0	17.8		ug/Kg		89	68 - 122
Trichloroethene	20.0	16.9		ug/Kg		85	80 - 120
Trichlorofluoromethane	20.0	13.3		ug/Kg		66	55 - 134
Vinyl chloride	20.0	13.9		ug/Kg		70	52 - 120
Xylenes, Total	60.0	54.4		ug/Kg		91	75 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-531785/4
Matrix: Solid
Analysis Batch: 531785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*97*		*54 - 135*
4-Bromofluorobenzene (Surr)	*100*		*50 - 131*
Dibromofluoromethane (Surr)	*94*		*50 - 141*
Toluene-d8 (Surr)	*103*		*52 - 141*

Lab Sample ID: LCSD 410-531785/5
Matrix: Solid
Analysis Batch: 531785

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	18.6		ug/Kg		93	69 - 123	8	30
1,1,2,2-Tetrachloroethane			20.0	19.9		ug/Kg		100	69 - 125	10	30
1,1,2-Trichloroethane			20.0	19.1		ug/Kg		96	80 - 120	7	30
1,1-Dichloroethane			20.0	19.1		ug/Kg		96	79 - 120	7	30
1,1-Dichloroethene			20.0	19.2		ug/Kg		96	73 - 129	5	30
1,2,4-Trichlorobenzene			20.0	18.2		ug/Kg		91	56 - 130	4	30
1,2-Dibromo-3-Chloropropane			20.0	18.5		ug/Kg		93	48 - 134	13	30
1,2-Dibromoethane			20.0	18.9		ug/Kg		95	76 - 120	9	30
1,2-Dichlorobenzene			20.0	18.9		ug/Kg		95	76 - 120	5	30
1,2-Dichloroethane			20.0	18.1		ug/Kg		91	71 - 128	7	30
1,2-Dichloropropane			20.0	18.7		ug/Kg		93	80 - 120	5	30
1,3-Dichlorobenzene			20.0	19.0		ug/Kg		95	75 - 120	6	30
1,4-Dichlorobenzene			20.0	18.8		ug/Kg		94	80 - 120	5	30
2-Butanone			250	238		ug/Kg		95	57 - 128	2	30
2-Hexanone			250	240		ug/Kg		96	54 - 140	16	30
4-Methyl-2-pentanone			250	233		ug/Kg		93	67 - 128	15	30
Acetone			250	221		ug/Kg		88	41 - 150	0	30
Benzene			20.0	18.4		ug/Kg		92	80 - 120	7	30
Bromodichloromethane			20.0	18.5		ug/Kg		93	70 - 120	8	30
Bromoform			20.0	18.9		ug/Kg		94	51 - 127	10	30
Bromomethane			20.0	13.6		ug/Kg		68	45 - 140	3	30
Carbon disulfide			20.0	16.8		ug/Kg		84	64 - 133	6	30
Carbon tetrachloride			20.0	17.9		ug/Kg		89	64 - 134	5	30
Chlorobenzene			20.0	19.0		ug/Kg		95	80 - 120	7	30
Chloroethane			20.0	15.5		ug/Kg		77	43 - 135	7	30
Chloroform			20.0	17.7		ug/Kg		89	80 - 120	8	30
Chloromethane			20.0	13.8		ug/Kg		69	56 - 120	9	30
cis-1,2-Dichloroethene			20.0	18.4		ug/Kg		92	80 - 125	7	30
cis-1,3-Dichloropropene			20.0	17.6		ug/Kg		88	66 - 120	7	30
Cyclohexane			20.0	16.8		ug/Kg		84	58 - 126	5	30
Dibromochloromethane			20.0	19.2		ug/Kg		96	69 - 125	10	30
Dichlorodifluoromethane			20.0	11.4		ug/Kg		57	21 - 127	4	30
Ethylbenzene			20.0	19.5		ug/Kg		98	78 - 120	6	30
Freon 113			20.0	15.1		ug/Kg		76	64 - 135	4	30
Isopropylbenzene			20.0	20.8		ug/Kg		104	77 - 120	6	30
Methyl acetate			20.0	19.4		ug/Kg		97	67 - 128	20	30
Methyl tertiary butyl ether			20.0	17.3		ug/Kg		86	72 - 120	9	30
Methylcyclohexane			20.0	16.2		ug/Kg		81	61 - 124	6	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-531785/5
Matrix: Solid
Analysis Batch: 531785

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride			20.0	18.2		ug/Kg		91	76 - 122	4	30
Styrene			20.0	18.7		ug/Kg		94	76 - 120	5	30
Tetrachloroethene			20.0	19.2		ug/Kg		96	73 - 120	6	30
Toluene			20.0	19.2		ug/Kg		96	80 - 120	7	30
trans-1,2-Dichloroethene			20.0	18.6		ug/Kg		93	80 - 126	4	30
trans-1,3-Dichloropropene			20.0	19.2		ug/Kg		96	68 - 122	7	30
Trichloroethene			20.0	18.1		ug/Kg		91	80 - 120	7	30
Trichlorofluoromethane			20.0	14.0		ug/Kg		70	55 - 134	5	30
Vinyl chloride			20.0	14.9		ug/Kg		74	52 - 120	7	30
Xylenes, Total			60.0	57.6		ug/Kg		96	75 - 120	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*54 - 135*
4-Bromofluorobenzene (Surr)	*99*		*50 - 131*
Dibromofluoromethane (Surr)	*95*		*50 - 141*
Toluene-d8 (Surr)	*102*		*52 - 141*

Lab Sample ID: MB 410-532050/7
Matrix: Solid
Analysis Batch: 532050

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		250	35	ug/Kg			07/24/24 19:25	50
1,1,2,2-Tetrachloroethane	ND		250	30	ug/Kg			07/24/24 19:25	50
1,1,2-Trichloroethane	ND		250	25	ug/Kg			07/24/24 19:25	50
1,1-Dichloroethane	ND		250	25	ug/Kg			07/24/24 19:25	50
1,1-Dichloroethene	ND		250	30	ug/Kg			07/24/24 19:25	50
1,2,4-Trichlorobenzene	ND		500	250	ug/Kg			07/24/24 19:25	50
1,2-Dibromo-3-Chloropropane	ND		250	50	ug/Kg			07/24/24 19:25	50
1,2-Dibromoethane	ND		250	30	ug/Kg			07/24/24 19:25	50
1,2-Dichlorobenzene	ND		250	30	ug/Kg			07/24/24 19:25	50
1,2-Dichloroethane	ND		250	30	ug/Kg			07/24/24 19:25	50
1,2-Dichloropropane	ND		250	25	ug/Kg			07/24/24 19:25	50
1,3-Dichlorobenzene	ND		250	25	ug/Kg			07/24/24 19:25	50
1,4-Dichlorobenzene	ND		250	25	ug/Kg			07/24/24 19:25	50
2-Butanone	ND		500	100	ug/Kg			07/24/24 19:25	50
2-Hexanone	ND		500	75	ug/Kg			07/24/24 19:25	50
4-Methyl-2-pentanone	ND		500	75	ug/Kg			07/24/24 19:25	50
Acetone	ND		1000	300	ug/Kg			07/24/24 19:25	50
Benzene	ND		250	25	ug/Kg			07/24/24 19:25	50
Bromodichloromethane	ND		250	35	ug/Kg			07/24/24 19:25	50
Bromoform	ND		500	250	ug/Kg			07/24/24 19:25	50
Bromomethane	ND		250	80	ug/Kg			07/24/24 19:25	50
Carbon disulfide	ND		250	30	ug/Kg			07/24/24 19:25	50
Carbon tetrachloride	ND		250	100	ug/Kg			07/24/24 19:25	50
Chlorobenzene	ND		250	25	ug/Kg			07/24/24 19:25	50
Chloroethane	ND		250	75	ug/Kg			07/24/24 19:25	50
Chloroform	ND		250	30	ug/Kg			07/24/24 19:25	50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-532050/7
Matrix: Solid
Analysis Batch: 532050

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		250	45	ug/Kg			07/24/24 19:25	50
cis-1,2-Dichloroethene	ND		250	30	ug/Kg			07/24/24 19:25	50
cis-1,3-Dichloropropene	ND		250	30	ug/Kg			07/24/24 19:25	50
Cyclohexane	ND		250	25	ug/Kg			07/24/24 19:25	50
Dibromochloromethane	ND		250	100	ug/Kg			07/24/24 19:25	50
Dichlorodifluoromethane	ND		250	30	ug/Kg			07/24/24 19:25	50
Ethylbenzene	ND		250	20	ug/Kg			07/24/24 19:25	50
Freon 113	ND		500	35	ug/Kg			07/24/24 19:25	50
Isopropylbenzene	ND		250	30	ug/Kg			07/24/24 19:25	50
Methyl acetate	ND		250	50	ug/Kg			07/24/24 19:25	50
Methyl tertiary butyl ether	ND		250	30	ug/Kg			07/24/24 19:25	50
Methylcyclohexane	ND		250	30	ug/Kg			07/24/24 19:25	50
Methylene Chloride	ND		250	100	ug/Kg			07/24/24 19:25	50
Styrene	ND		250	30	ug/Kg			07/24/24 19:25	50
Tetrachloroethene	ND		250	30	ug/Kg			07/24/24 19:25	50
Toluene	ND		250	30	ug/Kg			07/24/24 19:25	50
trans-1,2-Dichloroethene	ND		250	30	ug/Kg			07/24/24 19:25	50
trans-1,3-Dichloropropene	ND		250	30	ug/Kg			07/24/24 19:25	50
Trichloroethene	ND		250	30	ug/Kg			07/24/24 19:25	50
Trichlorofluoromethane	ND		250	40	ug/Kg			07/24/24 19:25	50
Vinyl chloride	ND		250	40	ug/Kg			07/24/24 19:25	50
Xylenes, Total	ND		250	70	ug/Kg			07/24/24 19:25	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*54 - 135*		*07/24/24 19:25*	*50*
4-Bromofluorobenzene (Surr)	*98*		*50 - 131*		*07/24/24 19:25*	*50*
Dibromofluoromethane (Surr)	*101*		*50 - 141*		*07/24/24 19:25*	*50*
Toluene-d8 (Surr)	*99*		*52 - 141*		*07/24/24 19:25*	*50*

Lab Sample ID: LCS 410-532050/6
Matrix: Solid
Analysis Batch: 532050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	1000	1060		ug/Kg		106	69 - 123
1,1,2,2-Tetrachloroethane	1000	896		ug/Kg		90	69 - 125
1,1,2-Trichloroethane	1000	1000		ug/Kg		100	80 - 120
1,1-Dichloroethane	1000	981		ug/Kg		98	79 - 120
1,1-Dichloroethene	1000	1010		ug/Kg		101	73 - 129
1,2,4-Trichlorobenzene	1000	974		ug/Kg		97	56 - 130
1,2-Dibromo-3-Chloropropane	1000	701		ug/Kg		70	48 - 134
1,2-Dibromoethane	1000	969		ug/Kg		97	76 - 120
1,2-Dichlorobenzene	1000	998		ug/Kg		100	76 - 120
1,2-Dichloroethane	1000	932		ug/Kg		93	71 - 128
1,2-Dichloropropane	1000	1000		ug/Kg		100	80 - 120
1,3-Dichlorobenzene	1000	998		ug/Kg		100	75 - 120
1,4-Dichlorobenzene	1000	1010		ug/Kg		101	80 - 120
2-Butanone	12500	11900		ug/Kg		95	57 - 128

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-532050/6
Matrix: Solid
Analysis Batch: 532050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Hexanone	12500	8560		ug/Kg		69	54 - 140
4-Methyl-2-pentanone	12500	9760		ug/Kg		78	67 - 128
Acetone	12500	14200		ug/Kg		113	41 - 150
Benzene	1000	994		ug/Kg		99	80 - 120
Bromodichloromethane	1000	1120		ug/Kg		112	70 - 120
Bromoform	1000	1040		ug/Kg		104	51 - 127
Bromomethane	1000	2320	*+	ug/Kg		232	45 - 140
Carbon disulfide	1000	968		ug/Kg		97	64 - 133
Carbon tetrachloride	1000	979		ug/Kg		98	64 - 134
Chlorobenzene	1000	1000		ug/Kg		100	80 - 120
Chloroethane	1000	2230	*+	ug/Kg		223	43 - 135
Chloroform	1000	994		ug/Kg		99	80 - 120
Chloromethane	1000	763		ug/Kg		76	56 - 120
cis-1,2-Dichloroethene	1000	1010		ug/Kg		101	80 - 125
cis-1,3-Dichloropropene	1000	1010		ug/Kg		101	66 - 120
Cyclohexane	1000	826		ug/Kg		83	58 - 126
Dibromochloromethane	1000	985		ug/Kg		99	69 - 125
Dichlorodifluoromethane	1000	477		ug/Kg		48	21 - 127
Ethylbenzene	1000	1010		ug/Kg		101	78 - 120
Freon 113	1000	762		ug/Kg		76	64 - 135
Isopropylbenzene	1000	1050		ug/Kg		105	77 - 120
Methyl acetate	1000	763		ug/Kg		76	67 - 128
Methyl tertiary butyl ether	1000	922		ug/Kg		92	72 - 120
Methylcyclohexane	1000	800		ug/Kg		80	61 - 124
Methylene Chloride	1000	1030		ug/Kg		103	76 - 122
Styrene	1000	1010		ug/Kg		101	76 - 120
Tetrachloroethene	1000	989		ug/Kg		99	73 - 120
Toluene	1000	998		ug/Kg		100	80 - 120
trans-1,2-Dichloroethene	1000	1000		ug/Kg		100	80 - 126
trans-1,3-Dichloropropene	1000	981		ug/Kg		98	68 - 122
Trichloroethene	1000	996		ug/Kg		100	80 - 120
Trichlorofluoromethane	1000	852		ug/Kg		85	55 - 134
Vinyl chloride	1000	847		ug/Kg		85	52 - 120
Xylenes, Total	3000	2970		ug/Kg		99	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*54 - 135*
4-Bromofluorobenzene (Surr)	*100*		*50 - 131*
Dibromofluoromethane (Surr)	*103*		*50 - 141*
Toluene-d8 (Surr)	*100*		*52 - 141*

Lab Sample ID: LCSD 410-532050/8
Matrix: Solid
Analysis Batch: 532050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1000	999		ug/Kg		100	69 - 123	6	30
1,1,2,2-Tetrachloroethane	1000	851		ug/Kg		85	69 - 125	5	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-532050/8
Matrix: Solid
Analysis Batch: 532050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			1000	941		ug/Kg		94	80 - 120	6	30
1,1-Dichloroethane			1000	934		ug/Kg		93	79 - 120	5	30
1,1-Dichloroethene			1000	949		ug/Kg		95	73 - 129	6	30
1,2,4-Trichlorobenzene			1000	890		ug/Kg		89	56 - 130	9	30
1,2-Dibromo-3-Chloropropane			1000	674		ug/Kg		67	48 - 134	4	30
1,2-Dibromoethane			1000	908		ug/Kg		91	76 - 120	7	30
1,2-Dichlorobenzene			1000	937		ug/Kg		94	76 - 120	6	30
1,2-Dichloroethane			1000	871		ug/Kg		87	71 - 128	7	30
1,2-Dichloropropane			1000	943		ug/Kg		94	80 - 120	6	30
1,3-Dichlorobenzene			1000	932		ug/Kg		93	75 - 120	7	30
1,4-Dichlorobenzene			1000	946		ug/Kg		95	80 - 120	6	30
2-Butanone			12500	11600		ug/Kg		93	57 - 128	2	30
2-Hexanone			12500	8870		ug/Kg		71	54 - 140	4	30
4-Methyl-2-pentanone			12500	9420		ug/Kg		75	67 - 128	3	30
Acetone			12500	14500		ug/Kg		116	41 - 150	3	30
Benzene			1000	938		ug/Kg		94	80 - 120	6	30
Bromodichloromethane			1000	1040		ug/Kg		104	70 - 120	7	30
Bromoform			1000	985		ug/Kg		99	51 - 127	5	30
Bromomethane			1000	1930	*+	ug/Kg		193	45 - 140	18	30
Carbon disulfide			1000	916		ug/Kg		92	64 - 133	5	30
Carbon tetrachloride			1000	940		ug/Kg		94	64 - 134	4	30
Chlorobenzene			1000	947		ug/Kg		95	80 - 120	6	30
Chloroethane			1000	1830	*+	ug/Kg		183	43 - 135	20	30
Chloroform			1000	949		ug/Kg		95	80 - 120	5	30
Chloromethane			1000	720		ug/Kg		72	56 - 120	6	30
cis-1,2-Dichloroethene			1000	958		ug/Kg		96	80 - 125	6	30
cis-1,3-Dichloropropene			1000	944		ug/Kg		94	66 - 120	7	30
Cyclohexane			1000	779		ug/Kg		78	58 - 126	6	30
Dibromochloromethane			1000	929		ug/Kg		93	69 - 125	6	30
Dichlorodifluoromethane			1000	460		ug/Kg		46	21 - 127	4	30
Ethylbenzene			1000	946		ug/Kg		95	78 - 120	6	30
Freon 113			1000	727		ug/Kg		73	64 - 135	5	30
Isopropylbenzene			1000	972		ug/Kg		97	77 - 120	7	30
Methyl acetate			1000	775		ug/Kg		77	67 - 128	2	30
Methyl tertiary butyl ether			1000	863		ug/Kg		86	72 - 120	7	30
Methylcyclohexane			1000	761		ug/Kg		76	61 - 124	5	30
Methylene Chloride			1000	967		ug/Kg		97	76 - 122	6	30
Styrene			1000	944		ug/Kg		94	76 - 120	7	30
Tetrachloroethene			1000	936		ug/Kg		94	73 - 120	6	30
Toluene			1000	933		ug/Kg		93	80 - 120	7	30
trans-1,2-Dichloroethene			1000	957		ug/Kg		96	80 - 126	4	30
trans-1,3-Dichloropropene			1000	903		ug/Kg		90	68 - 122	8	30
Trichloroethene			1000	950		ug/Kg		95	80 - 120	5	30
Trichlorofluoromethane			1000	814		ug/Kg		81	55 - 134	5	30
Vinyl chloride			1000	793		ug/Kg		79	52 - 120	7	30
Xylenes, Total			3000	2780		ug/Kg		93	75 - 120	7	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-532050/8
Matrix: Solid
Analysis Batch: 532050

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*95*		*54 - 135*
4-Bromofluorobenzene (Surr)	*94*		*50 - 131*
Dibromofluoromethane (Surr)	*97*		*50 - 141*
Toluene-d8 (Surr)	*95*		*52 - 141*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-531189/1-A ^2
Matrix: Solid
Analysis Batch: 532452

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	9.9	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Antimony	ND		0.20	0.080	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Arsenic	ND		0.40	0.13	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Barium	0.382	J B	0.40	0.18	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Beryllium	ND		0.10	0.024	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Cadmium	ND		0.10	0.040	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Calcium	ND		40	20	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Chromium	ND		0.40	0.19	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Cobalt	ND		0.20	0.080	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Copper	ND		0.40	0.18	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Iron	ND		20	9.2	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Lead	ND		0.20	0.076	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Magnesium	ND		10	4.9	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Manganese	ND		0.40	0.20	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Nickel	ND		0.40	0.19	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Potassium	ND		40	16	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Selenium	ND		0.40	0.10	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Silver	ND		0.10	0.041	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Sodium	ND		50	24	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Thallium	ND		0.10	0.039	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Vanadium	ND		0.80	0.20	mg/Kg		07/23/24 06:30	07/25/24 11:52	2
Zinc	ND		30	4.0	mg/Kg		07/23/24 06:30	07/25/24 11:52	2

Lab Sample ID: LCS 410-531189/2-A ^2
Matrix: Solid
Analysis Batch: 532452

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	500	500		mg/Kg		100	83 - 119
Antimony	10.0	9.93		mg/Kg		99	87 - 116
Arsenic	50.0	49.2		mg/Kg		98	87 - 114
Barium	50.0	50.8		mg/Kg		102	87 - 117
Beryllium	5.00	5.12		mg/Kg		102	80 - 120
Cadmium	5.00	4.99		mg/Kg		100	88 - 117
Calcium	500	521		mg/Kg		104	84 - 119
Chromium	50.0	49.6		mg/Kg		99	86 - 116
Cobalt	50.0	48.6		mg/Kg		97	85 - 115

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-531189/2-A ^2
Matrix: Solid
Analysis Batch: 532452

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	50.0	48.5		mg/Kg		97	84 - 115
Iron	500	505		mg/Kg		101	87 - 117
Lead	5.00	5.22		mg/Kg		104	88 - 117
Magnesium	500	499		mg/Kg		100	83 - 119
Manganese	50.0	49.7		mg/Kg		99	87 - 116
Nickel	50.0	50.0		mg/Kg		100	87 - 115
Potassium	500	489		mg/Kg		98	83 - 118
Selenium	10.0	9.87		mg/Kg		99	87 - 115
Silver	5.00	5.16		mg/Kg		103	88 - 117
Sodium	500	474		mg/Kg		95	81 - 120
Thallium	10.0	10.1		mg/Kg		101	87 - 116
Vanadium	50.0	49.5		mg/Kg		99	86 - 115
Zinc	50.0	50.5		mg/Kg		101	86 - 116

Lab Sample ID: MB 410-531625/1-A
Matrix: Water
Analysis Batch: 532121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		26	12	ug/L		07/23/24 23:30	07/24/24 20:18	1
Antimony	ND		1.0	0.21	ug/L		07/23/24 23:30	07/24/24 20:18	1
Arsenic	ND		2.1	0.70	ug/L		07/23/24 23:30	07/24/24 20:18	1
Barium	ND		2.1	0.77	ug/L		07/23/24 23:30	07/24/24 20:18	1
Beryllium	ND		0.52	0.12	ug/L		07/23/24 23:30	07/24/24 20:18	1
Cadmium	ND		0.52	0.16	ug/L		07/23/24 23:30	07/24/24 20:18	1
Calcium	ND		120	52	ug/L		07/23/24 23:30	07/24/24 20:18	1
Chromium	ND		2.1	0.57	ug/L		07/23/24 23:30	07/24/24 20:18	1
Cobalt	ND		0.52	0.16	ug/L		07/23/24 23:30	07/24/24 20:18	1
Copper	ND		1.0	0.37	ug/L		07/23/24 23:30	07/24/24 20:18	1
Iron	ND		52	21	ug/L		07/23/24 23:30	07/24/24 20:18	1
Lead	ND		0.52	0.12	ug/L		07/23/24 23:30	07/24/24 20:18	1
Magnesium	ND		52	16	ug/L		07/23/24 23:30	07/24/24 20:18	1
Nickel	ND		1.0	0.41	ug/L		07/23/24 23:30	07/24/24 20:18	1
Potassium	ND		210	67	ug/L		07/23/24 23:30	07/24/24 20:18	1
Selenium	ND		1.0	0.29	ug/L		07/23/24 23:30	07/24/24 20:18	1
Silver	ND		0.52	0.10	ug/L		07/23/24 23:30	07/24/24 20:18	1
Sodium	ND		210	93	ug/L		07/23/24 23:30	07/24/24 20:18	1
Thallium	ND		0.52	0.13	ug/L		07/23/24 23:30	07/24/24 20:18	1
Vanadium	ND		4.1	0.82	ug/L		07/23/24 23:30	07/24/24 20:18	1
Zinc	ND		10	4.1	ug/L		07/23/24 23:30	07/24/24 20:18	1

Lab Sample ID: MB 410-531625/1-A
Matrix: Water
Analysis Batch: 532156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		2.1	0.98	ug/L		07/23/24 23:30	07/24/24 21:04	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-531625/2-A
Matrix: Water
Analysis Batch: 532121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	5100		ug/L		102	90 - 110
Antimony	100	102		ug/L		102	90 - 115
Arsenic	500	513		ug/L		103	90 - 109
Barium	500	528		ug/L		106	90 - 113
Beryllium	50.0	52.0		ug/L		104	82 - 120
Cadmium	50.0	51.8		ug/L		104	90 - 112
Calcium	5000	5150		ug/L		103	90 - 112
Chromium	500	512		ug/L		102	90 - 110
Cobalt	500	523		ug/L		105	90 - 110
Copper	500	492		ug/L		98	90 - 110
Iron	5000	5200		ug/L		104	90 - 111
Lead	50.0	51.9		ug/L		104	90 - 110
Magnesium	5000	5040		ug/L		101	90 - 110
Nickel	500	499		ug/L		100	90 - 109
Potassium	5000	5010		ug/L		100	90 - 110
Selenium	100	100		ug/L		100	90 - 110
Silver	50.0	52.0		ug/L		104	90 - 112
Sodium	5000	5070		ug/L		101	89 - 114
Thallium	100	103		ug/L		103	90 - 110
Vanadium	500	512		ug/L		102	90 - 109
Zinc	500	508		ug/L		102	90 - 112

Lab Sample ID: LCS 410-531625/2-A
Matrix: Water
Analysis Batch: 532156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	500	503		ug/L		101	90 - 111

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-531596/1-A
Matrix: Water
Analysis Batch: 531877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		07/23/24 23:00	07/24/24 10:07	1

Lab Sample ID: LCS 410-531596/2-A
Matrix: Water
Analysis Batch: 531877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.02		ug/L		102	80 - 118

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-531188/1-A
Matrix: Solid
Analysis Batch: 531991

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531188

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.060	0.020	mg/Kg		07/23/24 22:00	07/24/24 11:55	1

Lab Sample ID: LCS 410-531188/2-A
Matrix: Solid
Analysis Batch: 531991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531188

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.163		mg/Kg		98	80 - 120

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 410-531170/3
Matrix: Water
Analysis Batch: 531170

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.030	0.010	mg/L			07/22/24 22:46	1

Lab Sample ID: LCS 410-531170/4
Matrix: Water
Analysis Batch: 531170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.200	0.198		mg/L		99	90 - 110

Lab Sample ID: LCSD 410-531170/5
Matrix: Water
Analysis Batch: 531170

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.200	0.201		mg/L		100	90 - 110	1	5

Lab Sample ID: MB 410-531557/1-A
Matrix: Solid
Analysis Batch: 531622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.42	0.14	mg/Kg		07/23/24 18:44	07/23/24 22:40	1

Lab Sample ID: LCS 410-531557/2-A
Matrix: Solid
Analysis Batch: 531622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	5.00	4.73		mg/Kg		95	80 - 120

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSI 410-531557/3-A
Matrix: Solid
Analysis Batch: 531622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531557

Analyte			Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)			753	744		mg/Kg		99	80 - 120		

Lab Sample ID: 410-180859-13 DU
Matrix: Water
Analysis Batch: 531170

Client Sample ID: DEP51-W1
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cr (VI)	ND			ND		mg/L				NC	5

GC/MS VOA

Analysis Batch: 531308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-13	DEP51-W1	Total/NA	Water	8260D	
410-180859-14	DUP-W	Total/NA	Water	8260D	
410-180859-15	DEP51-W2	Total/NA	Water	8260D	
410-180859-16	DEP51-W3	Total/NA	Water	8260D	
410-180859-17	DEP51-W4	Total/NA	Water	8260D	
410-180859-18	Trip Blank 2	Total/NA	Water	8260D	
410-180859-19	Trip Blank 1	Total/NA	Water	8260D	
MB 410-531308/7	Method Blank	Total/NA	Water	8260D	
LCS 410-531308/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-531308/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Prep Batch: 531394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-1	DEP51-S1	Total/NA	Solid	5035	
410-180859-2	DEP51-S2	Total/NA	Solid	5035	
410-180859-3	DEP51-S3	Total/NA	Solid	5035	
410-180859-4	DEP51-S4	Total/NA	Solid	5035	
410-180859-5	DEP51-S5	Total/NA	Solid	5035	
410-180859-6 - RA	DEP51-S6	Total/NA	Solid	5035	
410-180859-6	DEP51-S6	Total/NA	Solid	5035	
410-180859-9	DEP51-S8	Total/NA	Solid	5035	
410-180859-9 - RA	DEP51-S8	Total/NA	Solid	5035	
410-180859-10 - RA	DEP51-S9	Total/NA	Solid	5035	
410-180859-10	DEP51-S9	Total/NA	Solid	5035	
410-180859-11 - RA	DEP51-S10	Total/NA	Solid	5035	
410-180859-11	DEP51-S10	Total/NA	Solid	5035	
410-180859-12	DEP51-S11	Total/NA	Solid	5035	

Prep Batch: 531398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-7	DEP51-S7	Total/NA	Solid	5035	
410-180859-8	DUP-S	Total/NA	Solid	5035	

Analysis Batch: 531785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-1	DEP51-S1	Total/NA	Solid	8260D	531394
410-180859-2	DEP51-S2	Total/NA	Solid	8260D	531394
410-180859-3	DEP51-S3	Total/NA	Solid	8260D	531394
410-180859-4	DEP51-S4	Total/NA	Solid	8260D	531394
410-180859-5	DEP51-S5	Total/NA	Solid	8260D	531394
410-180859-6	DEP51-S6	Total/NA	Solid	8260D	531394
410-180859-6 - RA	DEP51-S6	Total/NA	Solid	8260D	531394
410-180859-9	DEP51-S8	Total/NA	Solid	8260D	531394
410-180859-9 - RA	DEP51-S8	Total/NA	Solid	8260D	531394
410-180859-10	DEP51-S9	Total/NA	Solid	8260D	531394
410-180859-10 - RA	DEP51-S9	Total/NA	Solid	8260D	531394
410-180859-11	DEP51-S10	Total/NA	Solid	8260D	531394
410-180859-11 - RA	DEP51-S10	Total/NA	Solid	8260D	531394
410-180859-12	DEP51-S11	Total/NA	Solid	8260D	531394
MB 410-531785/7	Method Blank	Total/NA	Solid	8260D	
LCS 410-531785/4	Lab Control Sample	Total/NA	Solid	8260D	

GC/MS VOA (Continued)

Analysis Batch: 531785 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-531785/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 532050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-7	DEP51-S7	Total/NA	Solid	8260D	531398
410-180859-8	DUP-S	Total/NA	Solid	8260D	531398
MB 410-532050/7	Method Blank	Total/NA	Solid	8260D	
LCS 410-532050/6	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 410-532050/8	Lab Control Sample Dup	Total/NA	Solid	8260D	

Metals

Prep Batch: 531188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-1	DEP51-S1	Total/NA	Solid	7471B	
410-180859-2	DEP51-S2	Total/NA	Solid	7471B	
410-180859-3	DEP51-S3	Total/NA	Solid	7471B	
410-180859-4	DEP51-S4	Total/NA	Solid	7471B	
410-180859-5	DEP51-S5	Total/NA	Solid	7471B	
410-180859-6	DEP51-S6	Total/NA	Solid	7471B	
410-180859-7	DEP51-S7	Total/NA	Solid	7471B	
410-180859-8	DUP-S	Total/NA	Solid	7471B	
410-180859-9	DEP51-S8	Total/NA	Solid	7471B	
410-180859-10	DEP51-S9	Total/NA	Solid	7471B	
410-180859-11	DEP51-S10	Total/NA	Solid	7471B	
410-180859-12	DEP51-S11	Total/NA	Solid	7471B	
MB 410-531188/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 410-531188/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 531189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-1	DEP51-S1	Total/NA	Solid	3050B	
410-180859-2	DEP51-S2	Total/NA	Solid	3050B	
410-180859-3	DEP51-S3	Total/NA	Solid	3050B	
410-180859-4	DEP51-S4	Total/NA	Solid	3050B	
410-180859-5	DEP51-S5	Total/NA	Solid	3050B	
410-180859-6	DEP51-S6	Total/NA	Solid	3050B	
410-180859-7	DEP51-S7	Total/NA	Solid	3050B	
410-180859-8	DUP-S	Total/NA	Solid	3050B	
410-180859-9	DEP51-S8	Total/NA	Solid	3050B	
410-180859-10	DEP51-S9	Total/NA	Solid	3050B	
410-180859-11	DEP51-S10	Total/NA	Solid	3050B	
410-180859-12	DEP51-S11	Total/NA	Solid	3050B	
MB 410-531189/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-531189/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 531596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-13	DEP51-W1	Dissolved	Water	7470A	
410-180859-14	DUP-W	Dissolved	Water	7470A	
410-180859-15	DEP51-W2	Dissolved	Water	7470A	

Metals (Continued)

Prep Batch: 531596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-16	DEP51-W3	Dissolved	Water	7470A	
410-180859-17	DEP51-W4	Dissolved	Water	7470A	
MB 410-531596/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-531596/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 531625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-13	DEP51-W1	Dissolved	Water	Non-Digest Prep	
410-180859-14	DUP-W	Dissolved	Water	Non-Digest Prep	
410-180859-15	DEP51-W2	Dissolved	Water	Non-Digest Prep	
410-180859-16	DEP51-W3	Dissolved	Water	Non-Digest Prep	
410-180859-17	DEP51-W4	Dissolved	Water	Non-Digest Prep	
MB 410-531625/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-531625/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 531877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-13	DEP51-W1	Dissolved	Water	7470A	531596
410-180859-14	DUP-W	Dissolved	Water	7470A	531596
410-180859-15	DEP51-W2	Dissolved	Water	7470A	531596
410-180859-16	DEP51-W3	Dissolved	Water	7470A	531596
410-180859-17	DEP51-W4	Dissolved	Water	7470A	531596
MB 410-531596/1-A	Method Blank	Total/NA	Water	7470A	531596
LCS 410-531596/2-A	Lab Control Sample	Total/NA	Water	7470A	531596

Analysis Batch: 531991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-1	DEP51-S1	Total/NA	Solid	7471B	531188
410-180859-2	DEP51-S2	Total/NA	Solid	7471B	531188
410-180859-3	DEP51-S3	Total/NA	Solid	7471B	531188
410-180859-4	DEP51-S4	Total/NA	Solid	7471B	531188
410-180859-5	DEP51-S5	Total/NA	Solid	7471B	531188
410-180859-6	DEP51-S6	Total/NA	Solid	7471B	531188
410-180859-7	DEP51-S7	Total/NA	Solid	7471B	531188
410-180859-8	DUP-S	Total/NA	Solid	7471B	531188
410-180859-9	DEP51-S8	Total/NA	Solid	7471B	531188
410-180859-10	DEP51-S9	Total/NA	Solid	7471B	531188
410-180859-11	DEP51-S10	Total/NA	Solid	7471B	531188
410-180859-12	DEP51-S11	Total/NA	Solid	7471B	531188
MB 410-531188/1-A	Method Blank	Total/NA	Solid	7471B	531188
LCS 410-531188/2-A	Lab Control Sample	Total/NA	Solid	7471B	531188

Analysis Batch: 532121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-13	DEP51-W1	Dissolved	Water	6020B	531625
410-180859-14	DUP-W	Dissolved	Water	6020B	531625
410-180859-15	DEP51-W2	Dissolved	Water	6020B	531625
410-180859-16	DEP51-W3	Dissolved	Water	6020B	531625
410-180859-17	DEP51-W4	Dissolved	Water	6020B	531625
MB 410-531625/1-A	Method Blank	Total/NA	Water	6020B	531625
LCS 410-531625/2-A	Lab Control Sample	Total/NA	Water	6020B	531625

Metals

Analysis Batch: 532156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-13	DEP51-W1	Dissolved	Water	6020B	531625
410-180859-14	DUP-W	Dissolved	Water	6020B	531625
410-180859-15	DEP51-W2	Dissolved	Water	6020B	531625
410-180859-16	DEP51-W3	Dissolved	Water	6020B	531625
410-180859-17	DEP51-W4	Dissolved	Water	6020B	531625
MB 410-531625/1-A	Method Blank	Total/NA	Water	6020B	531625
LCS 410-531625/2-A	Lab Control Sample	Total/NA	Water	6020B	531625

Analysis Batch: 532452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-1	DEP51-S1	Total/NA	Solid	6020B	531189
410-180859-1	DEP51-S1	Total/NA	Solid	6020B	531189
410-180859-2	DEP51-S2	Total/NA	Solid	6020B	531189
410-180859-2	DEP51-S2	Total/NA	Solid	6020B	531189
410-180859-3	DEP51-S3	Total/NA	Solid	6020B	531189
410-180859-3	DEP51-S3	Total/NA	Solid	6020B	531189
410-180859-4	DEP51-S4	Total/NA	Solid	6020B	531189
410-180859-4	DEP51-S4	Total/NA	Solid	6020B	531189
410-180859-5	DEP51-S5	Total/NA	Solid	6020B	531189
410-180859-5	DEP51-S5	Total/NA	Solid	6020B	531189
410-180859-6	DEP51-S6	Total/NA	Solid	6020B	531189
410-180859-6	DEP51-S6	Total/NA	Solid	6020B	531189
410-180859-7	DEP51-S7	Total/NA	Solid	6020B	531189
410-180859-7	DEP51-S7	Total/NA	Solid	6020B	531189
410-180859-8	DUP-S	Total/NA	Solid	6020B	531189
410-180859-8	DUP-S	Total/NA	Solid	6020B	531189
410-180859-9	DEP51-S8	Total/NA	Solid	6020B	531189
410-180859-9	DEP51-S8	Total/NA	Solid	6020B	531189
410-180859-10	DEP51-S9	Total/NA	Solid	6020B	531189
410-180859-10	DEP51-S9	Total/NA	Solid	6020B	531189
410-180859-11	DEP51-S10	Total/NA	Solid	6020B	531189
410-180859-11	DEP51-S10	Total/NA	Solid	6020B	531189
410-180859-12	DEP51-S11	Total/NA	Solid	6020B	531189
410-180859-12	DEP51-S11	Total/NA	Solid	6020B	531189
MB 410-531189/1-A ^2	Method Blank	Total/NA	Solid	6020B	531189
LCS 410-531189/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	531189

Analysis Batch: 532609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-1	DEP51-S1	Total/NA	Solid	6020B	531189
410-180859-1	DEP51-S1	Total/NA	Solid	6020B	531189
410-180859-2	DEP51-S2	Total/NA	Solid	6020B	531189
410-180859-2	DEP51-S2	Total/NA	Solid	6020B	531189
410-180859-3	DEP51-S3	Total/NA	Solid	6020B	531189
410-180859-4	DEP51-S4	Total/NA	Solid	6020B	531189
410-180859-4	DEP51-S4	Total/NA	Solid	6020B	531189

General Chemistry

Analysis Batch: 530419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-1	DEP51-S1	Total/NA	Solid	7199 CR3	
410-180859-2	DEP51-S2	Total/NA	Solid	7199 CR3	
410-180859-3	DEP51-S3	Total/NA	Solid	7199 CR3	
410-180859-4	DEP51-S4	Total/NA	Solid	7199 CR3	
410-180859-5	DEP51-S5	Total/NA	Solid	7199 CR3	
410-180859-6	DEP51-S6	Total/NA	Solid	7199 CR3	
410-180859-7	DEP51-S7	Total/NA	Solid	7199 CR3	
410-180859-8	DUP-S	Total/NA	Solid	7199 CR3	
410-180859-9	DEP51-S8	Total/NA	Solid	7199 CR3	
410-180859-10	DEP51-S9	Total/NA	Solid	7199 CR3	
410-180859-11	DEP51-S10	Total/NA	Solid	7199 CR3	
410-180859-12	DEP51-S11	Total/NA	Solid	7199 CR3	
410-180859-13	DEP51-W1	Total/NA	Water	7199 CR3	
410-180859-14	DUP-W	Total/NA	Water	7199 CR3	
410-180859-15	DEP51-W2	Total/NA	Water	7199 CR3	
410-180859-16	DEP51-W3	Total/NA	Water	7199 CR3	
410-180859-17	DEP51-W4	Total/NA	Water	7199 CR3	

Analysis Batch: 531170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-13	DEP51-W1	Dissolved	Water	7196A	
410-180859-14	DUP-W	Dissolved	Water	7196A	
410-180859-15	DEP51-W2	Dissolved	Water	7196A	
410-180859-16	DEP51-W3	Dissolved	Water	7196A	
410-180859-17	DEP51-W4	Dissolved	Water	7196A	
MB 410-531170/3	Method Blank	Total/NA	Water	7196A	
LCS 410-531170/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 410-531170/5	Lab Control Sample Dup	Total/NA	Water	7196A	
410-180859-13 DU	DEP51-W1	Dissolved	Water	7196A	

Analysis Batch: 531340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-1	DEP51-S1	Total/NA	Solid	Moisture	
410-180859-2	DEP51-S2	Total/NA	Solid	Moisture	
410-180859-3	DEP51-S3	Total/NA	Solid	Moisture	
410-180859-4	DEP51-S4	Total/NA	Solid	Moisture	
410-180859-5	DEP51-S5	Total/NA	Solid	Moisture	
410-180859-6	DEP51-S6	Total/NA	Solid	Moisture	
410-180859-7	DEP51-S7	Total/NA	Solid	Moisture	
410-180859-8	DUP-S	Total/NA	Solid	Moisture	
410-180859-9	DEP51-S8	Total/NA	Solid	Moisture	
410-180859-10	DEP51-S9	Total/NA	Solid	Moisture	
410-180859-11	DEP51-S10	Total/NA	Solid	Moisture	
410-180859-12	DEP51-S11	Total/NA	Solid	Moisture	

Prep Batch: 531557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-1	DEP51-S1	Total/NA	Solid	3060A	
410-180859-2	DEP51-S2	Total/NA	Solid	3060A	
410-180859-3	DEP51-S3	Total/NA	Solid	3060A	
410-180859-4	DEP51-S4	Total/NA	Solid	3060A	

General Chemistry (Continued)

Prep Batch: 531557 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-5	DEP51-S5	Total/NA	Solid	3060A	
410-180859-6	DEP51-S6	Total/NA	Solid	3060A	
410-180859-7	DEP51-S7	Total/NA	Solid	3060A	
410-180859-8	DUP-S	Total/NA	Solid	3060A	
410-180859-9	DEP51-S8	Total/NA	Solid	3060A	
410-180859-10	DEP51-S9	Total/NA	Solid	3060A	
410-180859-11	DEP51-S10	Total/NA	Solid	3060A	
410-180859-12	DEP51-S11	Total/NA	Solid	3060A	
MB 410-531557/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 410-531557/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSI 410-531557/3-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 531622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-180859-1	DEP51-S1	Total/NA	Solid	7196A	531557
410-180859-2	DEP51-S2	Total/NA	Solid	7196A	531557
410-180859-3	DEP51-S3	Total/NA	Solid	7196A	531557
410-180859-4	DEP51-S4	Total/NA	Solid	7196A	531557
410-180859-5	DEP51-S5	Total/NA	Solid	7196A	531557
410-180859-6	DEP51-S6	Total/NA	Solid	7196A	531557
410-180859-7	DEP51-S7	Total/NA	Solid	7196A	531557
410-180859-8	DUP-S	Total/NA	Solid	7196A	531557
410-180859-9	DEP51-S8	Total/NA	Solid	7196A	531557
410-180859-10	DEP51-S9	Total/NA	Solid	7196A	531557
410-180859-11	DEP51-S10	Total/NA	Solid	7196A	531557
410-180859-12	DEP51-S11	Total/NA	Solid	7196A	531557
MB 410-531557/1-A	Method Blank	Total/NA	Solid	7196A	531557
LCS 410-531557/2-A	Lab Control Sample	Total/NA	Solid	7196A	531557
LCSI 410-531557/3-A	Lab Control Sample	Total/NA	Solid	7196A	531557

Client Sample ID: DEP51-S1

Lab Sample ID: 410-180859-1

Date Collected: 07/22/24 10:30

Matrix: Solid

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	531340	E5GC	ELLE	07/23/24 09:39

Client Sample ID: DEP51-S1

Lab Sample ID: 410-180859-1

Date Collected: 07/22/24 10:30

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 99.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D		1	531785	ULCP	ELLE	07/24/24 13:46
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		2	532452	F7JF	ELLE	07/25/24 13:27
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532452	F7JF	ELLE	07/25/24 13:29
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532609	T8CQ	ELLE	07/25/24 18:04
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		100	532609	T8CQ	ELLE	07/25/24 18:06
Total/NA	Prep	7471B			531188	UAMX	ELLE	07/23/24 22:00
Total/NA	Analysis	7471B		1	531991	X3ZX	ELLE	07/24/24 12:29
Total/NA	Prep	3060A			531557	UDS7	ELLE	07/23/24 18:44
Total/NA	Analysis	7196A		1	531622	UDS7	ELLE	07/23/24 22:40
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-S2

Lab Sample ID: 410-180859-2

Date Collected: 07/22/24 10:45

Matrix: Solid

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	531340	E5GC	ELLE	07/23/24 09:39

Client Sample ID: DEP51-S2

Lab Sample ID: 410-180859-2

Date Collected: 07/22/24 10:45

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D		1	531785	ULCP	ELLE	07/24/24 14:09
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		2	532452	F7JF	ELLE	07/25/24 13:23
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532452	F7JF	ELLE	07/25/24 13:25
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532609	T8CQ	ELLE	07/25/24 18:00
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		100	532609	T8CQ	ELLE	07/25/24 18:02

Client Sample ID: DEP51-S2

Lab Sample ID: 410-180859-2

Date Collected: 07/22/24 10:45

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			531188	UAMX	ELLE	07/23/24 22:00
Total/NA	Analysis	7471B		1	531991	X3ZX	ELLE	07/24/24 12:27
Total/NA	Prep	3060A			531557	UDS7	ELLE	07/23/24 18:44
Total/NA	Analysis	7196A		1	531622	UDS7	ELLE	07/23/24 22:40
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-S3

Lab Sample ID: 410-180859-3

Date Collected: 07/22/24 10:50

Matrix: Solid

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	531340	E5GC	ELLE	07/23/24 09:39

Client Sample ID: DEP51-S3

Lab Sample ID: 410-180859-3

Date Collected: 07/22/24 10:50

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D		1	531785	ULCP	ELLE	07/24/24 14:31
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		2	532452	F7JF	ELLE	07/25/24 13:09
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532452	F7JF	ELLE	07/25/24 13:11
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		100	532609	T8CQ	ELLE	07/25/24 17:48
Total/NA	Prep	7471B			531188	UAMX	ELLE	07/23/24 22:00
Total/NA	Analysis	7471B		1	531991	X3ZX	ELLE	07/24/24 12:36
Total/NA	Prep	3060A			531557	UDS7	ELLE	07/23/24 18:44
Total/NA	Analysis	7196A		10	531622	UDS7	ELLE	07/23/24 22:40
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-S4

Lab Sample ID: 410-180859-4

Date Collected: 07/22/24 11:00

Matrix: Solid

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	531340	E5GC	ELLE	07/23/24 09:39

Client Sample ID: DEP51-S4

Lab Sample ID: 410-180859-4

Date Collected: 07/22/24 11:00

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D		1	531785	ULCP	ELLE	07/24/24 14:54
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		2	532452	F7JF	ELLE	07/25/24 13:19
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532452	F7JF	ELLE	07/25/24 13:21
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532609	T8CQ	ELLE	07/25/24 17:56
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		100	532609	T8CQ	ELLE	07/25/24 17:58
Total/NA	Prep	7471B			531188	UAMX	ELLE	07/23/24 22:00
Total/NA	Analysis	7471B		1	531991	X3ZX	ELLE	07/24/24 12:31
Total/NA	Prep	3060A			531557	UDS7	ELLE	07/23/24 18:44
Total/NA	Analysis	7196A		10	531622	UDS7	ELLE	07/23/24 22:40
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-S5

Lab Sample ID: 410-180859-5

Date Collected: 07/22/24 11:05

Matrix: Solid

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	531340	E5GC	ELLE	07/23/24 09:39

Client Sample ID: DEP51-S5

Lab Sample ID: 410-180859-5

Date Collected: 07/22/24 11:05

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D		1	531785	ULCP	ELLE	07/24/24 20:33
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		2	532452	F7JF	ELLE	07/25/24 13:05
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532452	F7JF	ELLE	07/25/24 13:07
Total/NA	Prep	7471B			531188	UAMX	ELLE	07/23/24 22:00
Total/NA	Analysis	7471B		1	531991	X3ZX	ELLE	07/24/24 12:14
Total/NA	Prep	3060A			531557	UDS7	ELLE	07/23/24 18:44
Total/NA	Analysis	7196A		10	531622	UDS7	ELLE	07/23/24 22:40
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-S6

Lab Sample ID: 410-180859-6

Date Collected: 07/22/24 11:10

Matrix: Solid

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	531340	E5GC	ELLE	07/23/24 09:39

Client Sample ID: DEP51-S6

Lab Sample ID: 410-180859-6

Date Collected: 07/22/24 11:10

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 70.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D		1	531785	ULCP	ELLE	07/24/24 15:39
Total/NA	Prep	5035	RA		531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D	RA	1	531785	ULCP	ELLE	07/24/24 20:56
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		2	532452	F7JF	ELLE	07/25/24 13:01
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532452	F7JF	ELLE	07/25/24 13:03
Total/NA	Prep	7471B			531188	UAMX	ELLE	07/23/24 22:00
Total/NA	Analysis	7471B		1	531991	X3ZX	ELLE	07/24/24 12:08
Total/NA	Prep	3060A			531557	UDS7	ELLE	07/23/24 18:44
Total/NA	Analysis	7196A		10	531622	UDS7	ELLE	07/23/24 22:40
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-S7

Lab Sample ID: 410-180859-7

Date Collected: 07/22/24 11:15

Matrix: Solid

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	531340	E5GC	ELLE	07/23/24 09:39

Client Sample ID: DEP51-S7

Lab Sample ID: 410-180859-7

Date Collected: 07/22/24 11:15

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 71.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			531398	VHK6	ELLE	07/23/24 11:01
Total/NA	Analysis	8260D		50	532050	S8BP	ELLE	07/25/24 02:22
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		2	532452	F7JF	ELLE	07/25/24 12:57
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532452	F7JF	ELLE	07/25/24 12:59
Total/NA	Prep	7471B			531188	UAMX	ELLE	07/23/24 22:00
Total/NA	Analysis	7471B		1	531991	X3ZX	ELLE	07/24/24 12:25
Total/NA	Prep	3060A			531557	UDS7	ELLE	07/23/24 18:44
Total/NA	Analysis	7196A		5	531622	UDS7	ELLE	07/23/24 22:40
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DUP-S
Lab Sample ID: 410-180859-8

Date Collected: 07/22/24 00:00
Matrix: Solid
Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	531340	E5GC	ELLE	07/23/24 09:39

Client Sample ID: DUP-S
Lab Sample ID: 410-180859-8

Date Collected: 07/22/24 00:00
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			531398	VHK6	ELLE	07/23/24 11:01
Total/NA	Analysis	8260D		50	532050	S8BP	ELLE	07/25/24 02:43
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		2	532452	F7JF	ELLE	07/25/24 12:47
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532452	F7JF	ELLE	07/25/24 12:49
Total/NA	Prep	7471B			531188	UAMX	ELLE	07/23/24 22:00
Total/NA	Analysis	7471B		1	531991	X3ZX	ELLE	07/24/24 12:23
Total/NA	Prep	3060A			531557	UDS7	ELLE	07/23/24 18:44
Total/NA	Analysis	7196A		10	531622	UDS7	ELLE	07/23/24 22:40
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-S8
Lab Sample ID: 410-180859-9

Date Collected: 07/22/24 11:20
Matrix: Solid
Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	531340	E5GC	ELLE	07/23/24 09:39

Client Sample ID: DEP51-S8
Lab Sample ID: 410-180859-9

Date Collected: 07/22/24 11:20
Matrix: Solid
Date Received: 07/22/24 16:10
Percent Solids: 62.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D		1	531785	ULCP	ELLE	07/24/24 16:02
Total/NA	Prep	5035	RA		531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D	RA	1	531785	ULCP	ELLE	07/24/24 21:18
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		2	532452	F7JF	ELLE	07/25/24 12:26
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532452	F7JF	ELLE	07/25/24 12:27
Total/NA	Prep	7471B			531188	UAMX	ELLE	07/23/24 22:00
Total/NA	Analysis	7471B		1	531991	X3ZX	ELLE	07/24/24 12:19
Total/NA	Prep	3060A			531557	UDS7	ELLE	07/23/24 18:44
Total/NA	Analysis	7196A		5	531622	UDS7	ELLE	07/23/24 22:40
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-S9

Lab Sample ID: 410-180859-10

Date Collected: 07/22/24 11:25

Matrix: Solid

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	531340	E5GC	ELLE	07/23/24 09:39

Client Sample ID: DEP51-S9

Lab Sample ID: 410-180859-10

Date Collected: 07/22/24 11:25

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D		1	531785	ULCP	ELLE	07/24/24 16:24
Total/NA	Prep	5035	RA		531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D	RA	1	531785	ULCP	ELLE	07/24/24 19:25
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		2	532452	F7JF	ELLE	07/25/24 12:35
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532452	F7JF	ELLE	07/25/24 12:37
Total/NA	Prep	7471B			531188	UAMX	ELLE	07/23/24 22:00
Total/NA	Analysis	7471B		1	531991	X3ZX	ELLE	07/24/24 12:21
Total/NA	Prep	3060A			531557	UDS7	ELLE	07/23/24 18:44
Total/NA	Analysis	7196A		10	531622	UDS7	ELLE	07/23/24 22:40
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-S10

Lab Sample ID: 410-180859-11

Date Collected: 07/22/24 11:30

Matrix: Solid

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	531340	E5GC	ELLE	07/23/24 09:39

Client Sample ID: DEP51-S10

Lab Sample ID: 410-180859-11

Date Collected: 07/22/24 11:30

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 62.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D		1	531785	ULCP	ELLE	07/24/24 16:47
Total/NA	Prep	5035	RA		531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D	RA	1	531785	ULCP	ELLE	07/24/24 19:48
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		2	532452	F7JF	ELLE	07/25/24 12:39
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532452	F7JF	ELLE	07/25/24 12:41
Total/NA	Prep	7471B			531188	UAMX	ELLE	07/23/24 22:00
Total/NA	Analysis	7471B		1	531991	X3ZX	ELLE	07/24/24 12:16
Total/NA	Prep	3060A			531557	UDS7	ELLE	07/23/24 18:44
Total/NA	Analysis	7196A		10	531622	UDS7	ELLE	07/23/24 22:40

Client Sample ID: DEP51-S10

Lab Sample ID: 410-180859-11

Date Collected: 07/22/24 11:30

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 62.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-S11

Lab Sample ID: 410-180859-12

Date Collected: 07/22/24 11:40

Matrix: Solid

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	531340	E5GC	ELLE	07/23/24 09:39

Client Sample ID: DEP51-S11

Lab Sample ID: 410-180859-12

Date Collected: 07/22/24 11:40

Matrix: Solid

Date Received: 07/22/24 16:10

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			531394	VHK6	ELLE	07/23/24 10:54
Total/NA	Analysis	8260D		1	531785	ULCP	ELLE	07/24/24 20:10
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		2	532452	F7JF	ELLE	07/25/24 12:43
Total/NA	Prep	3050B			531189	UJL8	ELLE	07/23/24 06:30
Total/NA	Analysis	6020B		10	532452	F7JF	ELLE	07/25/24 12:45
Total/NA	Prep	7471B			531188	UAMX	ELLE	07/23/24 22:00
Total/NA	Analysis	7471B		1	531991	X3ZX	ELLE	07/24/24 12:17
Total/NA	Prep	3060A			531557	UDS7	ELLE	07/23/24 18:44
Total/NA	Analysis	7196A		10	531622	UDS7	ELLE	07/23/24 22:40
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-W1

Lab Sample ID: 410-180859-13

Date Collected: 07/22/24 12:05

Matrix: Water

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	531308	DVW2	ELLE	07/23/24 12:35
Dissolved	Prep	Non-Digest Prep			531625	UAMX	ELLE	07/23/24 23:30
Dissolved	Analysis	6020B		1	532156	F7JF	ELLE	07/24/24 21:10
Dissolved	Prep	Non-Digest Prep			531625	UAMX	ELLE	07/23/24 23:30
Dissolved	Analysis	6020B		1	532121	T8CQ	ELLE	07/24/24 20:40
Dissolved	Prep	7470A			531596	UAMX	ELLE	07/23/24 23:00
Dissolved	Analysis	7470A		1	531877	X3ZX	ELLE	07/24/24 10:27
Dissolved	Analysis	7196A		1	531170	UDS7	ELLE	07/22/24 22:46
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DUP-W

Lab Sample ID: 410-180859-14

Date Collected: 07/22/24 00:00

Matrix: Water

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	531308	DVW2	ELLE	07/23/24 12:54
Dissolved	Prep	Non-Digest Prep			531625	UAMX	ELLE	07/23/24 23:30
Dissolved	Analysis	6020B		1	532156	F7JF	ELLE	07/24/24 21:07
Dissolved	Prep	Non-Digest Prep			531625	UAMX	ELLE	07/23/24 23:30
Dissolved	Analysis	6020B		1	532121	T8CQ	ELLE	07/24/24 20:38
Dissolved	Prep	7470A			531596	UAMX	ELLE	07/23/24 23:00
Dissolved	Analysis	7470A		1	531877	X3ZX	ELLE	07/24/24 10:25
Dissolved	Analysis	7196A		1	531170	UDS7	ELLE	07/22/24 22:46
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-W2

Lab Sample ID: 410-180859-15

Date Collected: 07/22/24 12:10

Matrix: Water

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	531308	DVW2	ELLE	07/23/24 13:14
Dissolved	Prep	Non-Digest Prep			531625	UAMX	ELLE	07/23/24 23:30
Dissolved	Analysis	6020B		1	532156	F7JF	ELLE	07/24/24 21:15
Dissolved	Prep	Non-Digest Prep			531625	UAMX	ELLE	07/23/24 23:30
Dissolved	Analysis	6020B		1	532121	T8CQ	ELLE	07/24/24 20:46
Dissolved	Prep	7470A			531596	UAMX	ELLE	07/23/24 23:00
Dissolved	Analysis	7470A		1	531877	X3ZX	ELLE	07/24/24 10:24
Dissolved	Analysis	7196A		1	531170	UDS7	ELLE	07/22/24 22:46
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: DEP51-W3

Lab Sample ID: 410-180859-16

Date Collected: 07/22/24 12:15

Matrix: Water

Date Received: 07/22/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	531308	DVW2	ELLE	07/23/24 13:34
Dissolved	Prep	Non-Digest Prep			531625	UAMX	ELLE	07/23/24 23:30
Dissolved	Analysis	6020B		1	532156	F7JF	ELLE	07/24/24 21:13
Dissolved	Prep	Non-Digest Prep			531625	UAMX	ELLE	07/23/24 23:30
Dissolved	Analysis	6020B		1	532121	T8CQ	ELLE	07/24/24 20:44
Dissolved	Prep	7470A			531596	UAMX	ELLE	07/23/24 23:00
Dissolved	Analysis	7470A		1	531877	X3ZX	ELLE	07/24/24 10:22
Dissolved	Analysis	7196A		1	531170	UDS7	ELLE	07/22/24 22:46
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Lab Chronicle

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Client Sample ID: DEP51-W4

Lab Sample ID: 410-180859-17

Date Collected: 07/22/24 13:00
Date Received: 07/22/24 16:10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	531308	DVW2	ELLE	07/23/24 13:53
Dissolved	Prep	Non-Digest Prep			531625	UAMX	ELLE	07/23/24 23:30
Dissolved	Analysis	6020B		1	532156	F7JF	ELLE	07/24/24 21:11
Dissolved	Prep	Non-Digest Prep			531625	UAMX	ELLE	07/23/24 23:30
Dissolved	Analysis	6020B		1	532121	T8CQ	ELLE	07/24/24 20:42
Dissolved	Prep	7470A			531596	UAMX	ELLE	07/23/24 23:00
Dissolved	Analysis	7470A		1	531877	X3ZX	ELLE	07/24/24 10:29
Dissolved	Analysis	7196A		1	531170	UDS7	ELLE	07/22/24 23:04
Total/NA	Analysis	7199 CR3		1	530419	MRD6	ELLE	07/23/24 10:32

Client Sample ID: Trip Blank 2

Lab Sample ID: 410-180859-18

Date Collected: 07/22/24 00:00
Date Received: 07/22/24 16:10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	531308	DVW2	ELLE	07/23/24 10:57

Client Sample ID: Trip Blank 1

Lab Sample ID: 410-180859-19

Date Collected: 07/22/24 00:00
Date Received: 07/22/24 16:10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	531308	DVW2	ELLE	07/23/24 11:17

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Pennsylvania Dept of Env Protection
Job ID: 410-180859-1
Project/Site: DEP 51st

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7199 CR3		Solid	Cr (III)
7199 CR3		Water	Cr (III)
Moisture		Solid	Percent Moisture

Method Summary

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
7471B	Mercury (CVAA)	SW846	ELLE
7196A	Chromium, Hexavalent	SW846	ELLE
7199 CR3	Chromium, Trivalent (Calculation)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE
7471B	Preparation, Mercury	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-180859-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-180859-1	DEP51-S1	Solid	07/22/24 10:30	07/22/24 16:10
410-180859-2	DEP51-S2	Solid	07/22/24 10:45	07/22/24 16:10
410-180859-3	DEP51-S3	Solid	07/22/24 10:50	07/22/24 16:10
410-180859-4	DEP51-S4	Solid	07/22/24 11:00	07/22/24 16:10
410-180859-5	DEP51-S5	Solid	07/22/24 11:05	07/22/24 16:10
410-180859-6	DEP51-S6	Solid	07/22/24 11:10	07/22/24 16:10
410-180859-7	DEP51-S7	Solid	07/22/24 11:15	07/22/24 16:10
410-180859-8	DUP-S	Solid	07/22/24 00:00	07/22/24 16:10
410-180859-9	DEP51-S8	Solid	07/22/24 11:20	07/22/24 16:10
410-180859-10	DEP51-S9	Solid	07/22/24 11:25	07/22/24 16:10
410-180859-11	DEP51-S10	Solid	07/22/24 11:30	07/22/24 16:10
410-180859-12	DEP51-S11	Solid	07/22/24 11:40	07/22/24 16:10
410-180859-13	DEP51-W1	Water	07/22/24 12:05	07/22/24 16:10
410-180859-14	DUP-W	Water	07/22/24 00:00	07/22/24 16:10
410-180859-15	DEP51-W2	Water	07/22/24 12:10	07/22/24 16:10
410-180859-16	DEP51-W3	Water	07/22/24 12:15	07/22/24 16:10
410-180859-17	DEP51-W4	Water	07/22/24 13:00	07/22/24 16:10
410-180859-18	Trip Blank 2	Water	07/22/24 00:00	07/22/24 16:10
410-180859-19	Trip Blank 1	Water	07/22/24 00:00	07/22/24 16:10

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Chain of Custody Record

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410-180859 Chain of Custody

Client Contact: Glorinés Suárez Rivera	Sampler: Christine McCarthy	Lab PM: Sachtleben, Kerri S	Carrier Tracking No(s):	COC No: 410-127010-35441.1
	Phone: 484-250-5725	E-Mail: Kerri.Sachtleben@et.eurofinsus.com	State of Origin: PA	Page: Page 1 of 2
Company: Pennsylvania Dept of Env Protection	PWSID:	Analysis Requested		Job #:
Address: 2 East Main Street	Due Date Requested:			Preservation Codes: N - Nitric Acid H - Hydrochloric Acid m - methanol
City: Norristown	TAT Requested (days): RUSH 3 Day TAT			
State, Zip: PA, 19401	Compliance Project: Δ Yes Δ No			
Phone: 484-250-5724(Tel)	PO #: Purchase Order Requested			
Email: gsuarezriv@pa.gov	WO #:			
Project Name: DEP 51st	Project #: 41020738			
Site: Alliance 51st street Bike Trail	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D TCL VOC, 4.3 Tent	6020B Total Metals TAL List	7196A Hex chrom	1996CR3 calc.	Percent moisture	Total Number of containers	Special Instructions/Note:
Preservation Code:							M						
DEP51 - S1	7/22/24	1030	G	S			X	X	X	X	X	5	
DEP51 - S2	7/22/24	1045	G	S			X	X	X	X	X	5	
DEP51 - S3	7/22/24	1050	G	S			X	X	X	X	X	5	
DEP51 - S4	7/22/24	1100	G	S			X	X	X	X	X	5	
DEP51 - S5	7/22/24	1105	G	S			X	X	X	X	X	5	
DEP51 - S6	7/22/24	1110	G	S			X	X	X	X	X	5	
DEP51 - S7	7/22/24	1115	G	S			X	X	X	X	X	5	
DUP - S	7/22/24	—	G	S			X	X	X	X	X	5	
DEP51 - S8	7/22/24	1120	G	S			X	X	X	X	X	5	
DEP51 - S9	7/22/24	1125	G	S			X	X	X	X	X	5	
DEP51 - S10	7/22/24	1130	G	S			X	X	X	X	X	5	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) ③ 7/19/24

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date: 7/19/24	Time: 9:55	Method of Shipment:
Relinquished by:	Date/Time:	Company	Received by: 0955 Date/Time: 7/19/24 ~~0955~~ Company: PADEP
Relinquished by: Christine McCarthy	Date/Time: 7/22/24 1500	Company: PA DEP	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: 7/22/24 1610 Company: ELLET

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 000108, 000109

Cooler Temperature(s) °C and Other Remarks: raw: 10.9-14.4 corr: 11.0-14.5

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Cus

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Client Information	Sampler: Christine McCarthy		Carrier Tracking No(s):	COC No: 410-127010-35441.2
Client Contact: Glorinés Suárez Rivera	Phone: 484-250-5725	@et.eurof...us.com	State of Origin: PA	Page: Page 2 of 2
Company: Pennsylvania Dept of Env Protection	PWS	Analysis Requested		Job #:
Address: 2 East Main Street	Due Date Requested:			Preservation Codes: N - Nitric Acid; H - Hydrochloric Acid; M - methanol
City: Norristown	TAT Requested (days): 3 DAY RUSH TAT			
State, Zip: PA, 19401	Compliance Project: Δ Yes Δ No			
Phone: 484-250-5724(Tel)	PO #: Purchase Order Requested			
Email: gsuarezriv@pa.gov	WO #:			
Project Name: DEP 51st	Project #: 41020738			
Site: Alliance 51st Street/ Bike Trail	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D TCL VOCs 4.3	6020B Total Metals TAL List	7196A Hex. Chrom.	7199 CP-3 CWC	Percent Moisture	8260D TCL VOCs 4.3	6020B Total Metals TALs	Total Number of containers	Special Instructions/Note:
Preservation Code:							H	N				M			
DEP51-S11	7/22/24	1140	G	S			X	X	X	X	X	X	X	5	
DEP51-W1	7/22/24	1205	G	W			X	X	X	X				5	
DUP-W2 cm 7/22/24	7/22/24	—	G	W			X	X	X	X				5	
DEP51-W2	7/22/24	1210	G	W			X	X	X	X				5	
DEP51-W3	7/22/24	1215	G	W			X	X	X	X				5	
DEP51-W4	7/22/24	~~1220~~	G	W			X	X	X	X				5	
~~Trip Blank 1~~ cm 7/22/24		1300 cm 7/22/24													
Trip Blank 2	7/22/24	—	G	W			X							3	2 cm 7/22/24
Trip Blank 1	7/22/24	—	G	W			X							3	2 cm 7/22/24

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date: 7/19/24	Time: 9:55	Method of Shipment:	7/19/24	
Relinquished by:	Date/Time:	Company	Received by: 0955	Date/Time: 7/19/24 0955	Company: PA DEP
Relinquished by: Christine McCarthy	Date/Time: 7/22/24 1500	Company: PADEP	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/22/24 1610	Company: ELMT

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 000108, 000109

Cooler Temperature(s) °C and Other Remarks: raw: 10.9-14.4 corr: 11.0-14.5

empl kit - sam

Login Sample Receipt Checklist

Client: Pennsylvania Dept of Env Protection

Job Number: 410-180859-1

Login Number: 180859

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Metzger, Katherine A

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	False	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Glorinés Suárez Rivera
Pennsylvania Dept of Env Protection
2 East Main Street
Norristown, Pennsylvania 19401

Generated 8/23/2024 4:43:26 PM

JOB DESCRIPTION

DEP 51st

JOB NUMBER

410-183955-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by
Kerri Sachtleben, Client Services Group Leader
Kerri.Sachtleben@et.eurofinsus.com
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Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
FH	MS and/or MSD recovery above control limits.
FL	MS and/or MSD recovery below control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
!	Laboratory is not accredited for this parameter.
cn	Refer to Case Narrative for further detail

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job Narrative
410-183955-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/13/2024 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.7°C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: DEP51-S12-240813 (410-183955-1), DUP-SA-240813 (410-183955-2), DEP51-S3-240813 (410-183955-3), DEP51-S5-240813 (410-183955-4), DEP51-S6-240813 (410-183955-5), DUP-SB-240813 (410-183955-6), DEP51-S13-240813 (410-183955-7), DEP51-S7V (410-183955-8), DEP51-S8A-240813 (410-183955-9), DEP51-S10A-240813 (410-183955-10), DEP51-S14-240813 (410-183955-11), DEP51-S15-240813 (410-183955-12), DEP51-W5-240813 (410-183955-13) and DEP51-W6-240813 (410-183955-14). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 7196A: The following samples were diluted due to the nature of the sample matrix: DEP51-S12-240813 (410-183955-1) and DUP-SA-240813 (410-183955-2). Elevated reporting limits (RLs) are provided.

Method 7196A: The following sample was diluted due to the nature of the sample matrix: DEP51-S13-240813 (410-183955-7). Elevated reporting limits (RLs) are provided.

Method 7196A: The following sample was diluted due to the nature of the sample matrix: DEP51-S7V (410-183955-8). Elevated reporting limits (RLs) are provided.

Method 7196A: The following samples were diluted due to the nature of the sample matrix: DEP51-S10A-240813 (410-183955-10), DEP51-S14-240813 (410-183955-11) and DEP51-S15-240813 (410-183955-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-183955-1

Client Sample ID: DEP51-S12-240813 — Lab Sample ID: 410-183955-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	17000	^2	26	13	mg/Kg	2	☼	6020B	Total/NA
Antimony	1.1		0.26	0.10	mg/Kg	2	☼	6020B	Total/NA
Arsenic	14		0.52	0.18	mg/Kg	2	☼	6020B	Total/NA
Barium	180		0.52	0.24	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.91		0.13	0.031	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.67		0.13	0.052	mg/Kg	2	☼	6020B	Total/NA
Calcium	27000		260	130	mg/Kg	10	☼	6020B	Total/NA
Chromium	1000		2.6	1.2	mg/Kg	10	☼	6020B	Total/NA
Cobalt	19	^5-	0.26	0.10	mg/Kg	2	☼	6020B	Total/NA
Copper	70		0.52	0.24	mg/Kg	2	☼	6020B	Total/NA
Iron	31000	^2	130	60	mg/Kg	10	☼	6020B	Total/NA
Lead	230		0.26	0.10	mg/Kg	2	☼	6020B	Total/NA
Magnesium	8100		13	6.4	mg/Kg	2	☼	6020B	Total/NA
Manganese	610	^2	0.52	0.26	mg/Kg	2	☼	6020B	Total/NA
Nickel	68		0.52	0.25	mg/Kg	2	☼	6020B	Total/NA
Potassium	5300		52	21	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.57		0.52	0.13	mg/Kg	2	☼	6020B	Total/NA
Silver	0.37		0.13	0.053	mg/Kg	2	☼	6020B	Total/NA
Sodium	190		66	31	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.37		0.13	0.051	mg/Kg	2	☼	6020B	Total/NA
Vanadium	68		1.0	0.26	mg/Kg	2	☼	6020B	Total/NA
Zinc	420		200	26	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.23		0.073	0.024	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	1000	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DUP-SA-240813 — Lab Sample ID: 410-183955-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	16000	^2	21	10	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.97		0.21	0.084	mg/Kg	2	☼	6020B	Total/NA
Arsenic	13		0.42	0.14	mg/Kg	2	☼	6020B	Total/NA
Barium	180		0.42	0.19	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.82		0.10	0.025	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.63		0.10	0.042	mg/Kg	2	☼	6020B	Total/NA
Calcium	28000		210	100	mg/Kg	10	☼	6020B	Total/NA
Chromium	1100		21	9.9	mg/Kg	100	☼	6020B	Total/NA
Cobalt	18	^5-	0.21	0.084	mg/Kg	2	☼	6020B	Total/NA
Copper	64		0.42	0.19	mg/Kg	2	☼	6020B	Total/NA
Iron	31000	^2	100	48	mg/Kg	10	☼	6020B	Total/NA
Lead	220		1.0	0.40	mg/Kg	10	☼	6020B	Total/NA
Magnesium	7400		10	5.1	mg/Kg	2	☼	6020B	Total/NA
Manganese	590	^2	0.42	0.21	mg/Kg	2	☼	6020B	Total/NA
Nickel	60		0.42	0.20	mg/Kg	2	☼	6020B	Total/NA
Potassium	5000		42	17	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.50		0.42	0.10	mg/Kg	2	☼	6020B	Total/NA
Silver	0.34		0.10	0.042	mg/Kg	2	☼	6020B	Total/NA
Sodium	190		52	25	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.32		0.10	0.041	mg/Kg	2	☼	6020B	Total/NA
Vanadium	61		0.84	0.21	mg/Kg	2	☼	6020B	Total/NA
Zinc	410		160	21	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.12		0.078	0.026	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-SA-240813 (Continued)

Lab Sample ID: 410-183955-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (III)	1100	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP51-S3-240813

Lab Sample ID: 410-183955-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	15000		22	11	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.74		0.22	0.087	mg/Kg	2	☼	6020B	Total/NA
Arsenic	7.5		0.43	0.15	mg/Kg	2	☼	6020B	Total/NA
Barium	130		0.43	0.20	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.63		0.11	0.026	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.34		0.11	0.043	mg/Kg	2	☼	6020B	Total/NA
Calcium	38000		220	110	mg/Kg	10	☼	6020B	Total/NA
Chromium	1300		22	10	mg/Kg	100	☼	6020B	Total/NA
Cobalt	16		0.22	0.087	mg/Kg	2	☼	6020B	Total/NA
Copper	35		0.43	0.20	mg/Kg	2	☼	6020B	Total/NA
Iron	25000		110	50	mg/Kg	10	☼	6020B	Total/NA
Lead	78		0.22	0.083	mg/Kg	2	☼	6020B	Total/NA
Magnesium	8900		11	5.3	mg/Kg	2	☼	6020B	Total/NA
Manganese	430		0.43	0.22	mg/Kg	2	☼	6020B	Total/NA
Nickel	62		0.43	0.21	mg/Kg	2	☼	6020B	Total/NA
Potassium	6000		43	17	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.22	J	0.43	0.11	mg/Kg	2	☼	6020B	Total/NA
Silver	0.071	J	0.11	0.044	mg/Kg	2	☼	6020B	Total/NA
Sodium	130		54	26	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.34		0.11	0.043	mg/Kg	2	☼	6020B	Total/NA
Vanadium	57		0.87	0.22	mg/Kg	2	☼	6020B	Total/NA
Zinc	240		160	22	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.097		0.062	0.021	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	57		2.4	0.80	mg/Kg	5	☼	7196A	Total/NA
Cr (III)	1200	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP51-S5-240813

Lab Sample ID: 410-183955-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9600		20	10	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.77		0.20	0.081	mg/Kg	2	☼	6020B	Total/NA
Arsenic	4.9		0.41	0.14	mg/Kg	2	☼	6020B	Total/NA
Barium	100		0.41	0.19	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.57		0.10	0.024	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.31		0.10	0.041	mg/Kg	2	☼	6020B	Total/NA
Calcium	13000		41	20	mg/Kg	2	☼	6020B	Total/NA
Chromium	410		2.0	0.97	mg/Kg	10	☼	6020B	Total/NA
Cobalt	10		0.20	0.081	mg/Kg	2	☼	6020B	Total/NA
Copper	33		0.41	0.18	mg/Kg	2	☼	6020B	Total/NA
Iron	21000		100	47	mg/Kg	10	☼	6020B	Total/NA
Lead	610		1.0	0.39	mg/Kg	10	☼	6020B	Total/NA
Magnesium	5600		10	5.0	mg/Kg	2	☼	6020B	Total/NA
Manganese	430		0.41	0.20	mg/Kg	2	☼	6020B	Total/NA
Nickel	31		0.41	0.19	mg/Kg	2	☼	6020B	Total/NA
Potassium	3800		41	16	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.23	J	0.41	0.10	mg/Kg	2	☼	6020B	Total/NA
Silver	0.090	J	0.10	0.041	mg/Kg	2	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP51-S5-240813 (Continued)

Lab Sample ID: 410-183955-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	200		51	24	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.20		0.10	0.040	mg/Kg	2	☼	6020B	Total/NA
Vanadium	29		0.81	0.20	mg/Kg	2	☼	6020B	Total/NA
Zinc	390		150	20	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.038	J	0.070	0.023	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	62		2.5	0.84	mg/Kg	5	☼	7196A	Total/NA
Cr (III)	350	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP51-S6-240813

Lab Sample ID: 410-183955-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	6700		20	9.7	mg/Kg	2	☼	6020B	Total/NA
Antimony	4.8		0.20	0.079	mg/Kg	2	☼	6020B	Total/NA
Arsenic	11		0.39	0.13	mg/Kg	2	☼	6020B	Total/NA
Barium	77		0.39	0.18	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.38		0.098	0.023	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.35		0.098	0.039	mg/Kg	2	☼	6020B	Total/NA
Calcium	13000		39	19	mg/Kg	2	☼	6020B	Total/NA
Chromium	460		2.0	0.93	mg/Kg	10	☼	6020B	Total/NA
Cobalt	14		0.20	0.079	mg/Kg	2	☼	6020B	Total/NA
Copper	72		0.39	0.18	mg/Kg	2	☼	6020B	Total/NA
Iron	110000		980	450	mg/Kg	100	☼	6020B	Total/NA
Lead	670		0.98	0.37	mg/Kg	10	☼	6020B	Total/NA
Magnesium	4600		9.8	4.8	mg/Kg	2	☼	6020B	Total/NA
Manganese	720		0.39	0.20	mg/Kg	2	☼	6020B	Total/NA
Nickel	46		0.39	0.19	mg/Kg	2	☼	6020B	Total/NA
Potassium	2200		39	16	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.18	J	0.39	0.098	mg/Kg	2	☼	6020B	Total/NA
Silver	0.062	J	0.098	0.040	mg/Kg	2	☼	6020B	Total/NA
Sodium	230		49	24	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.14		0.098	0.038	mg/Kg	2	☼	6020B	Total/NA
Vanadium	30		0.79	0.20	mg/Kg	2	☼	6020B	Total/NA
Zinc	300		150	20	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.042	J	0.063	0.021	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	8.3		0.46	0.15	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	450	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DUP-SB-240813

Lab Sample ID: 410-183955-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	6800		19	9.4	mg/Kg	2	☼	6020B	Total/NA
Antimony	5.8		0.19	0.076	mg/Kg	2	☼	6020B	Total/NA
Arsenic	10		0.38	0.13	mg/Kg	2	☼	6020B	Total/NA
Barium	77		0.38	0.17	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.49		0.095	0.023	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.32		0.095	0.038	mg/Kg	2	☼	6020B	Total/NA
Calcium	14000		38	19	mg/Kg	2	☼	6020B	Total/NA
Chromium	530		1.9	0.91	mg/Kg	10	☼	6020B	Total/NA
Cobalt	12		0.19	0.076	mg/Kg	2	☼	6020B	Total/NA
Copper	81		0.38	0.17	mg/Kg	2	☼	6020B	Total/NA
Iron	70000		95	44	mg/Kg	10	☼	6020B	Total/NA
Lead	310		0.95	0.36	mg/Kg	10	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-SB-240813 (Continued)

Lab Sample ID: 410-183955-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	4200		9.5	4.7	mg/Kg	2	☼	6020B	Total/NA
Manganese	560		0.38	0.19	mg/Kg	2	☼	6020B	Total/NA
Nickel	52		0.38	0.18	mg/Kg	2	☼	6020B	Total/NA
Potassium	2200		38	15	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.20	J	0.38	0.095	mg/Kg	2	☼	6020B	Total/NA
Silver	0.063	J	0.095	0.039	mg/Kg	2	☼	6020B	Total/NA
Sodium	110		48	23	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.15		0.095	0.037	mg/Kg	2	☼	6020B	Total/NA
Vanadium	30		0.76	0.19	mg/Kg	2	☼	6020B	Total/NA
Zinc	440		140	19	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.058	J	0.059	0.020	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	33		0.88	0.29	mg/Kg	2	☼	7196A	Total/NA
Cr (III)	500	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP51-S13-240813

Lab Sample ID: 410-183955-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	12000		20	10	mg/Kg	2	☼	6020B	Total/NA
Antimony	1.2		0.20	0.081	mg/Kg	2	☼	6020B	Total/NA
Arsenic	6.6		0.40	0.14	mg/Kg	2	☼	6020B	Total/NA
Barium	130		0.40	0.18	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.58		0.10	0.024	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.37		0.10	0.040	mg/Kg	2	☼	6020B	Total/NA
Calcium	42000		200	99	mg/Kg	10	☼	6020B	Total/NA
Chromium	450		2.0	0.96	mg/Kg	10	☼	6020B	Total/NA
Cobalt	12		0.20	0.081	mg/Kg	2	☼	6020B	Total/NA
Copper	36		0.40	0.18	mg/Kg	2	☼	6020B	Total/NA
Iron	27000		100	47	mg/Kg	10	☼	6020B	Total/NA
Lead	260		1.0	0.38	mg/Kg	10	☼	6020B	Total/NA
Magnesium	8800		10	5.0	mg/Kg	2	☼	6020B	Total/NA
Manganese	460		0.40	0.20	mg/Kg	2	☼	6020B	Total/NA
Nickel	34		0.40	0.19	mg/Kg	2	☼	6020B	Total/NA
Potassium	4600		40	16	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.18	J	0.40	0.10	mg/Kg	2	☼	6020B	Total/NA
Silver	0.098	J	0.10	0.041	mg/Kg	2	☼	6020B	Total/NA
Sodium	290		51	24	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.26		0.10	0.040	mg/Kg	2	☼	6020B	Total/NA
Vanadium	41		0.81	0.20	mg/Kg	2	☼	6020B	Total/NA
Zinc	270		150	20	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.067		0.058	0.019	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	450	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP51-S7V

Lab Sample ID: 410-183955-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	14000		25	12	mg/Kg	2	☼	6020B	Total/NA
Antimony	1.2		0.25	0.10	mg/Kg	2	☼	6020B	Total/NA
Arsenic	12		0.50	0.17	mg/Kg	2	☼	6020B	Total/NA
Barium	130		0.50	0.23	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.68		0.13	0.030	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.49		0.13	0.050	mg/Kg	2	☼	6020B	Total/NA
Calcium	18000		50	25	mg/Kg	2	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP51-S7V (Continued)

Lab Sample ID: 410-183955-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	1000		2.5	1.2	mg/Kg	10	☼	6020B	Total/NA
Cobalt	16		0.25	0.10	mg/Kg	2	☼	6020B	Total/NA
Copper	53		0.50	0.23	mg/Kg	2	☼	6020B	Total/NA
Iron	29000		130	58	mg/Kg	10	☼	6020B	Total/NA
Lead	400		1.3	0.48	mg/Kg	10	☼	6020B	Total/NA
Magnesium	7700		13	6.2	mg/Kg	2	☼	6020B	Total/NA
Manganese	560		0.50	0.25	mg/Kg	2	☼	6020B	Total/NA
Nickel	58		0.50	0.24	mg/Kg	2	☼	6020B	Total/NA
Potassium	4500		50	20	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.39	J	0.50	0.13	mg/Kg	2	☼	6020B	Total/NA
Silver	0.14		0.13	0.051	mg/Kg	2	☼	6020B	Total/NA
Sodium	180		63	30	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.29		0.13	0.049	mg/Kg	2	☼	6020B	Total/NA
Vanadium	57		1.0	0.25	mg/Kg	2	☼	6020B	Total/NA
Zinc	420		190	25	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.091		0.071	0.024	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	1000	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP51-S8A-240813

Lab Sample ID: 410-183955-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7000		22	11	mg/Kg	2	☼	6020B	Total/NA
Antimony	1.0		0.22	0.089	mg/Kg	2	☼	6020B	Total/NA
Arsenic	4.1		0.45	0.15	mg/Kg	2	☼	6020B	Total/NA
Barium	68		0.45	0.20	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.36		0.11	0.027	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.15		0.11	0.045	mg/Kg	2	☼	6020B	Total/NA
Calcium	20000		45	22	mg/Kg	2	☼	6020B	Total/NA
Chromium	320		2.2	1.1	mg/Kg	10	☼	6020B	Total/NA
Cobalt	6.8		0.22	0.089	mg/Kg	2	☼	6020B	Total/NA
Copper	9900		22	10	mg/Kg	100	☼	6020B	Total/NA
Iron	20000		22	10	mg/Kg	2	☼	6020B	Total/NA
Lead	110		0.22	0.085	mg/Kg	2	☼	6020B	Total/NA
Magnesium	6100		11	5.5	mg/Kg	2	☼	6020B	Total/NA
Manganese	310		0.45	0.22	mg/Kg	2	☼	6020B	Total/NA
Nickel	22		0.45	0.21	mg/Kg	2	☼	6020B	Total/NA
Potassium	2700		45	18	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.14	J	0.45	0.11	mg/Kg	2	☼	6020B	Total/NA
Silver	0.11		0.11	0.045	mg/Kg	2	☼	6020B	Total/NA
Sodium	270		56	27	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.16		0.11	0.044	mg/Kg	2	☼	6020B	Total/NA
Vanadium	26		0.89	0.22	mg/Kg	2	☼	6020B	Total/NA
Zinc	130		33	4.5	mg/Kg	2	☼	6020B	Total/NA
Mercury	0.074		0.071	0.024	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	35		2.7	0.91	mg/Kg	5	☼	7196A	Total/NA
Cr (III)	280	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP51-S10A-240813

Lab Sample ID: 410-183955-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	14000	4	20	10	mg/Kg	2	☼	6020B	Total/NA
Antimony	1.2	FL	0.20	0.081	mg/Kg	2	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP51-S10A-240813 (Continued)

Lab Sample ID: 410-183955-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		0.40	0.14	mg/Kg	2	☼	6020B	Total/NA
Barium	130	FL	0.40	0.18	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.78		0.10	0.024	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.53		0.10	0.040	mg/Kg	2	☼	6020B	Total/NA
Calcium	43000	4 F2	200	99	mg/Kg	10	☼	6020B	Total/NA
Chromium	720	4	2.0	0.96	mg/Kg	10	☼	6020B	Total/NA
Cobalt	15		0.20	0.081	mg/Kg	2	☼	6020B	Total/NA
Copper	61	FL	0.40	0.18	mg/Kg	2	☼	6020B	Total/NA
Iron	25000	4	100	47	mg/Kg	10	☼	6020B	Total/NA
Lead	210	4 F2	1.0	0.38	mg/Kg	10	☼	6020B	Total/NA
Magnesium	20000	4 F2	50	25	mg/Kg	10	☼	6020B	Total/NA
Manganese	580	4	0.40	0.20	mg/Kg	2	☼	6020B	Total/NA
Nickel	48	FL	0.40	0.19	mg/Kg	2	☼	6020B	Total/NA
Potassium	3700	4	40	16	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.42		0.40	0.10	mg/Kg	2	☼	6020B	Total/NA
Silver	0.28		0.10	0.041	mg/Kg	2	☼	6020B	Total/NA
Sodium	200	FH	50	24	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.28		0.10	0.040	mg/Kg	2	☼	6020B	Total/NA
Vanadium	54		0.81	0.20	mg/Kg	2	☼	6020B	Total/NA
Zinc	370	4	150	20	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.12	FL F2	0.060	0.020	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	720	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP51-S14-240813

Lab Sample ID: 410-183955-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	16000		23	11	mg/Kg	2	☼	6020B	Total/NA
Antimony	2.3		0.23	0.093	mg/Kg	2	☼	6020B	Total/NA
Arsenic	7.9		0.46	0.16	mg/Kg	2	☼	6020B	Total/NA
Barium	460		2.3	1.1	mg/Kg	10	☼	6020B	Total/NA
Beryllium	0.72		0.12	0.028	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.48		0.12	0.046	mg/Kg	2	☼	6020B	Total/NA
Calcium	20000		46	23	mg/Kg	2	☼	6020B	Total/NA
Chromium	640		2.3	1.1	mg/Kg	10	☼	6020B	Total/NA
Cobalt	17		0.23	0.093	mg/Kg	2	☼	6020B	Total/NA
Copper	88		0.46	0.21	mg/Kg	2	☼	6020B	Total/NA
Iron	28000		120	53	mg/Kg	10	☼	6020B	Total/NA
Lead	260		1.2	0.44	mg/Kg	10	☼	6020B	Total/NA
Magnesium	7500		12	5.7	mg/Kg	2	☼	6020B	Total/NA
Manganese	460		0.46	0.23	mg/Kg	2	☼	6020B	Total/NA
Nickel	50		0.46	0.22	mg/Kg	2	☼	6020B	Total/NA
Potassium	4500		46	19	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.42	J	0.46	0.12	mg/Kg	2	☼	6020B	Total/NA
Silver	0.96		0.12	0.047	mg/Kg	2	☼	6020B	Total/NA
Sodium	130		58	28	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.27		0.12	0.045	mg/Kg	2	☼	6020B	Total/NA
Vanadium	50		0.93	0.23	mg/Kg	2	☼	6020B	Total/NA
Zinc	800		170	23	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.21		0.071	0.024	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	640	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-183955-1

Client Sample ID: DEP51-S15-240813 — Lab Sample ID: 410-183955-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	14000		24	12	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.97		0.24	0.098	mg/Kg	2	☼	6020B	Total/NA
Arsenic	4.4		0.49	0.16	mg/Kg	2	☼	6020B	Total/NA
Barium	100		0.49	0.22	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.48		0.12	0.029	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.50		0.12	0.049	mg/Kg	2	☼	6020B	Total/NA
Calcium	19000		49	24	mg/Kg	2	☼	6020B	Total/NA
Chromium	86		0.49	0.23	mg/Kg	2	☼	6020B	Total/NA
Cobalt	9.7		0.24	0.098	mg/Kg	2	☼	6020B	Total/NA
Copper	54		0.49	0.22	mg/Kg	2	☼	6020B	Total/NA
Iron	21000		24	11	mg/Kg	2	☼	6020B	Total/NA
Lead	190		0.24	0.093	mg/Kg	2	☼	6020B	Total/NA
Magnesium	12000		12	6.0	mg/Kg	2	☼	6020B	Total/NA
Manganese	380		0.49	0.24	mg/Kg	2	☼	6020B	Total/NA
Nickel	21		0.49	0.23	mg/Kg	2	☼	6020B	Total/NA
Potassium	3400		49	20	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.38	J	0.49	0.12	mg/Kg	2	☼	6020B	Total/NA
Silver	0.14		0.12	0.050	mg/Kg	2	☼	6020B	Total/NA
Sodium	140		61	29	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.24		0.12	0.048	mg/Kg	2	☼	6020B	Total/NA
Vanadium	45		0.98	0.24	mg/Kg	2	☼	6020B	Total/NA
Zinc	180		37	4.9	mg/Kg	2	☼	6020B	Total/NA
Mercury	0.21		0.074	0.025	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	86	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP51-W5-240813 — Lab Sample ID: 410-183955-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.0	0.21	ug/L	1		6020B	Dissolved
Arsenic	0.86	J	2.1	0.70	ug/L	1		6020B	Dissolved
Barium	65		2.1	0.77	ug/L	1		6020B	Dissolved
Calcium	89000		120	52	ug/L	1		6020B	Dissolved
Chromium	19000		210	57	ug/L	100		6020B	Dissolved
Cobalt	0.94		0.52	0.16	ug/L	1		6020B	Dissolved
Copper	2.4		1.0	0.37	ug/L	1		6020B	Dissolved
Magnesium	8000		52	16	ug/L	1		6020B	Dissolved
Nickel	0.97	J	1.0	0.41	ug/L	1		6020B	Dissolved
Potassium	13000		210	67	ug/L	1		6020B	Dissolved
Selenium	1.0		1.0	0.29	ug/L	1		6020B	Dissolved
Sodium	47000	^2	210	93	ug/L	1		6020B	Dissolved
Vanadium	5.0		4.1	0.82	ug/L	1		6020B	Dissolved
Cr (VI)	20		3.0	1.0	mg/L	100		7196A	Dissolved

Client Sample ID: DEP51-W6-240813 — Lab Sample ID: 410-183955-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	220		26	12	ug/L	1		6020B	Dissolved
Antimony	1.0		1.0	0.21	ug/L	1		6020B	Dissolved
Arsenic	3.9		2.1	0.70	ug/L	1		6020B	Dissolved
Barium	54		2.1	0.77	ug/L	1		6020B	Dissolved
Calcium	190000		1200	520	ug/L	10		6020B	Dissolved
Chromium	27000		210	57	ug/L	100		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP51-W6-240813 (Continued)

Lab Sample ID: 410-183955-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	1.1		0.52	0.16	ug/L	1		6020B	Dissolved
Copper	9.3		1.0	0.37	ug/L	1		6020B	Dissolved
Magnesium	4100		52	16	ug/L	1		6020B	Dissolved
Nickel	2.6		1.0	0.41	ug/L	1		6020B	Dissolved
Potassium	14000		210	67	ug/L	1		6020B	Dissolved
Selenium	2.1		1.0	0.29	ug/L	1		6020B	Dissolved
Sodium	62000	^2	210	93	ug/L	1		6020B	Dissolved
Vanadium	14		4.1	0.82	ug/L	1		6020B	Dissolved
Cr (VI)	29		3.0	1.0	mg/L	100		7196A	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP51-S12-240813

Lab Sample ID: 410-183955-1

Date Collected: 08/13/24 10:51
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 75.5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17000	^2	26	13	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Antimony	1.1		0.26	0.10	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Arsenic	14		0.52	0.18	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Barium	180		0.52	0.24	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Beryllium	0.91		0.13	0.031	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Cadmium	0.67		0.13	0.052	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Calcium	27000		260	130	mg/Kg	☼	08/14/24 07:00	08/19/24 11:44	10
Chromium	1000		2.6	1.2	mg/Kg	☼	08/14/24 07:00	08/19/24 11:44	10
Cobalt	19	^5-	0.26	0.10	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Copper	70		0.52	0.24	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Iron	31000	^2	130	60	mg/Kg	☼	08/14/24 07:00	08/19/24 11:44	10
Lead	230		0.26	0.10	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Magnesium	8100		13	6.4	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Manganese	610	^2	0.52	0.26	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Nickel	68		0.52	0.25	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Potassium	5300		52	21	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Selenium	0.57		0.52	0.13	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Silver	0.37		0.13	0.053	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Sodium	190		66	31	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Thallium	0.37		0.13	0.051	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Vanadium	68		1.0	0.26	mg/Kg	☼	08/14/24 07:00	08/19/24 11:42	2
Zinc	420		200	26	mg/Kg	☼	08/14/24 07:00	08/19/24 11:44	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.073	0.024	mg/Kg	☼	08/14/24 23:25	08/16/24 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	12	3.8	mg/Kg	☼	08/13/24 18:22	08/14/24 02:58	20
Cr (III) (SW846 7196A)	1000	!	0.011	0.0035	mg/Kg	☼		08/14/24 09:06	1
Percent Moisture (EPA Moisture)	24.5	!	1.0	1.0	%			08/13/24 20:02	1

Client Sample ID: DUP-SA-240813

Lab Sample ID: 410-183955-2

Date Collected: 08/13/24 00:00
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 76.5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16000	^2	21	10	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Antimony	0.97		0.21	0.084	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Arsenic	13		0.42	0.14	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Barium	180		0.42	0.19	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Beryllium	0.82		0.10	0.025	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Cadmium	0.63		0.10	0.042	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Calcium	28000		210	100	mg/Kg	☼	08/14/24 07:00	08/19/24 11:48	10
Chromium	1100		21	9.9	mg/Kg	☼	08/14/24 07:00	08/19/24 15:25	100
Cobalt	18	^5-	0.21	0.084	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Copper	64		0.42	0.19	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Iron	31000	^2	100	48	mg/Kg	☼	08/14/24 07:00	08/19/24 11:48	10

Client Sample ID: DUP-SA-240813

Lab Sample ID: 410-183955-2

Date Collected: 08/13/24 00:00
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 76.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	220		1.0	0.40	mg/Kg	☼	08/14/24 07:00	08/19/24 11:48	10
Magnesium	7400		10	5.1	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Manganese	590	^2	0.42	0.21	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Nickel	60		0.42	0.20	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Potassium	5000		42	17	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Selenium	0.50		0.42	0.10	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Silver	0.34		0.10	0.042	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Sodium	190		52	25	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Thallium	0.32		0.10	0.041	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Vanadium	61		0.84	0.21	mg/Kg	☼	08/14/24 07:00	08/19/24 11:46	2
Zinc	410		160	21	mg/Kg	☼	08/14/24 07:00	08/19/24 11:48	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.078	0.026	mg/Kg	☼	08/14/24 23:25	08/16/24 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	5.8	1.9	mg/Kg	☼	08/13/24 18:22	08/14/24 02:58	10
Cr (III) (SW846 7196A)	1100	!	0.011	0.0035	mg/Kg	☼		08/14/24 09:06	1
Percent Moisture (EPA Moisture)	23.5	!	1.0	1.0	%			08/13/24 20:02	1

Client Sample ID: DEP51-S3-240813

Lab Sample ID: 410-183955-3

Date Collected: 08/13/24 10:55
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 89.3

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		22	11	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Antimony	0.74		0.22	0.087	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Arsenic	7.5		0.43	0.15	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Barium	130		0.43	0.20	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Beryllium	0.63		0.11	0.026	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Cadmium	0.34		0.11	0.043	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Calcium	38000		220	110	mg/Kg	☼	08/14/24 21:30	08/16/24 14:05	10
Chromium	1300		22	10	mg/Kg	☼	08/14/24 21:30	08/16/24 18:21	100
Cobalt	16		0.22	0.087	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Copper	35		0.43	0.20	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Iron	25000		110	50	mg/Kg	☼	08/14/24 21:30	08/16/24 14:05	10
Lead	78		0.22	0.083	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Magnesium	8900		11	5.3	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Manganese	430		0.43	0.22	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Nickel	62		0.43	0.21	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Potassium	6000		43	17	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Selenium	0.22	J	0.43	0.11	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Silver	0.071	J	0.11	0.044	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Sodium	130		54	26	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Thallium	0.34		0.11	0.043	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Vanadium	57		0.87	0.22	mg/Kg	☼	08/14/24 21:30	08/16/24 14:03	2
Zinc	240		160	22	mg/Kg	☼	08/14/24 21:30	08/16/24 14:05	10

Client Sample ID: DEP51-S3-240813

Lab Sample ID: 410-183955-3

Date Collected: 08/13/24 10:55
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 89.3

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.097		0.062	0.021	mg/Kg	☼	08/14/24 23:25	08/16/24 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	57		2.4	0.80	mg/Kg	☼	08/13/24 18:22	08/14/24 02:58	5
Cr (III) (SW846 7196A)	1200	!	0.011	0.0035	mg/Kg	☼		08/14/24 09:06	1
Percent Moisture (EPA Moisture)	10.7	!	1.0	1.0	%			08/13/24 20:02	1

Client Sample ID: DEP51-S5-240813

Lab Sample ID: 410-183955-4

Date Collected: 08/13/24 11:10
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 81.2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9600		20	10	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Antimony	0.77		0.20	0.081	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Arsenic	4.9		0.41	0.14	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Barium	100		0.41	0.19	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Beryllium	0.57		0.10	0.024	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Cadmium	0.31		0.10	0.041	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Calcium	13000		41	20	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Chromium	410		2.0	0.97	mg/Kg	☼	08/14/24 21:30	08/16/24 14:01	10
Cobalt	10		0.20	0.081	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Copper	33		0.41	0.18	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Iron	21000		100	47	mg/Kg	☼	08/14/24 21:30	08/16/24 14:01	10
Lead	610		1.0	0.39	mg/Kg	☼	08/14/24 21:30	08/16/24 14:01	10
Magnesium	5600		10	5.0	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Manganese	430		0.41	0.20	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Nickel	31		0.41	0.19	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Potassium	3800		41	16	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Selenium	0.23	J	0.41	0.10	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Silver	0.090	J	0.10	0.041	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Sodium	200		51	24	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Thallium	0.20		0.10	0.040	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Vanadium	29		0.81	0.20	mg/Kg	☼	08/14/24 21:30	08/16/24 13:59	2
Zinc	390		150	20	mg/Kg	☼	08/14/24 21:30	08/16/24 14:01	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	J	0.070	0.023	mg/Kg	☼	08/14/24 23:25	08/16/24 07:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	62		2.5	0.84	mg/Kg	☼	08/13/24 18:22	08/14/24 02:58	5
Cr (III) (SW846 7196A)	350	!	0.011	0.0035	mg/Kg	☼		08/14/24 09:06	1
Percent Moisture (EPA Moisture)	18.8	!	1.0	1.0	%			08/13/24 20:02	1

Client Sample ID: DEP51-S6-240813

Lab Sample ID: 410-183955-5

Date Collected: 08/13/24 11:20
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 95.2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6700		20	9.7	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Antimony	4.8		0.20	0.079	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Arsenic	11		0.39	0.13	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Barium	77		0.39	0.18	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Beryllium	0.38		0.098	0.023	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Cadmium	0.35		0.098	0.039	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Calcium	13000		39	19	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Chromium	460		2.0	0.93	mg/Kg	☼	08/14/24 21:30	08/16/24 13:57	10
Cobalt	14		0.20	0.079	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Copper	72		0.39	0.18	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Iron	110000		980	450	mg/Kg	☼	08/14/24 21:30	08/16/24 18:19	100
Lead	670		0.98	0.37	mg/Kg	☼	08/14/24 21:30	08/16/24 13:57	10
Magnesium	4600		9.8	4.8	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Manganese	720		0.39	0.20	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Nickel	46		0.39	0.19	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Potassium	2200		39	16	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Selenium	0.18	J	0.39	0.098	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Silver	0.062	J	0.098	0.040	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Sodium	230		49	24	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Thallium	0.14		0.098	0.038	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Vanadium	30		0.79	0.20	mg/Kg	☼	08/14/24 21:30	08/16/24 13:55	2
Zinc	300		150	20	mg/Kg	☼	08/14/24 21:30	08/16/24 13:57	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042	J	0.063	0.021	mg/Kg	☼	08/14/24 23:25	08/16/24 07:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	8.3		0.46	0.15	mg/Kg	☼	08/13/24 18:22	08/14/24 02:58	1
Cr (III) (SW846 7196A)	450	!	0.011	0.0035	mg/Kg	☼		08/14/24 09:06	1
Percent Moisture (EPA Moisture)	4.8	!	1.0	1.0	%			08/13/24 20:02	1

Client Sample ID: DUP-SB-240813

Lab Sample ID: 410-183955-6

Date Collected: 08/13/24 00:00
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 93.7

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6800		19	9.4	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Antimony	5.8		0.19	0.076	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Arsenic	10		0.38	0.13	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Barium	77		0.38	0.17	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Beryllium	0.49		0.095	0.023	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Cadmium	0.32		0.095	0.038	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Calcium	14000		38	19	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Chromium	530		1.9	0.91	mg/Kg	☼	08/14/24 21:30	08/16/24 13:53	10
Cobalt	12		0.19	0.076	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Copper	81		0.38	0.17	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Iron	70000		95	44	mg/Kg	☼	08/14/24 21:30	08/16/24 13:53	10

Client Sample ID: DUP-SB-240813

Lab Sample ID: 410-183955-6

Date Collected: 08/13/24 00:00
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 93.7

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	310		0.95	0.36	mg/Kg	☼	08/14/24 21:30	08/16/24 13:53	10
Magnesium	4200		9.5	4.7	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Manganese	560		0.38	0.19	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Nickel	52		0.38	0.18	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Potassium	2200		38	15	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Selenium	0.20	J	0.38	0.095	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Silver	0.063	J	0.095	0.039	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Sodium	110		48	23	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Thallium	0.15		0.095	0.037	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Vanadium	30		0.76	0.19	mg/Kg	☼	08/14/24 21:30	08/16/24 13:51	2
Zinc	440		140	19	mg/Kg	☼	08/14/24 21:30	08/16/24 13:53	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058	J	0.059	0.020	mg/Kg	☼	08/14/24 23:25	08/16/24 07:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	33		0.88	0.29	mg/Kg	☼	08/13/24 18:22	08/14/24 02:58	2
Cr (III) (SW846 7196A)	500	!	0.011	0.0035	mg/Kg	☼		08/14/24 09:06	1
Percent Moisture (EPA Moisture)	6.3	!	1.0	1.0	%			08/13/24 20:02	1

Client Sample ID: DEP51-S13-240813

Lab Sample ID: 410-183955-7

Date Collected: 08/13/24 11:05
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 98.9

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		20	10	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Antimony	1.2		0.20	0.081	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Arsenic	6.6		0.40	0.14	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Barium	130		0.40	0.18	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Beryllium	0.58		0.10	0.024	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Cadmium	0.37		0.10	0.040	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Calcium	42000		200	99	mg/Kg	☼	08/14/24 21:30	08/16/24 14:29	10
Chromium	450		2.0	0.96	mg/Kg	☼	08/14/24 21:30	08/16/24 14:29	10
Cobalt	12		0.20	0.081	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Copper	36		0.40	0.18	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Iron	27000		100	47	mg/Kg	☼	08/14/24 21:30	08/16/24 14:29	10
Lead	260		1.0	0.38	mg/Kg	☼	08/14/24 21:30	08/16/24 14:29	10
Magnesium	8800		10	5.0	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Manganese	460		0.40	0.20	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Nickel	34		0.40	0.19	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Potassium	4600		40	16	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Selenium	0.18	J	0.40	0.10	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Silver	0.098	J	0.10	0.041	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Sodium	290		51	24	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Thallium	0.26		0.10	0.040	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Vanadium	41		0.81	0.20	mg/Kg	☼	08/14/24 21:30	08/16/24 14:27	2
Zinc	270		150	20	mg/Kg	☼	08/14/24 21:30	08/16/24 14:29	10

Client Sample ID: DEP51-S13-240813

Lab Sample ID: 410-183955-7

Date Collected: 08/13/24 11:05
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 98.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.058	0.019	mg/Kg	☼	08/14/24 23:25	08/16/24 07:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	4.4	1.5	mg/Kg	☼	08/13/24 18:22	08/14/24 02:58	10
Cr (III) (SW846 7196A)	450	!	0.011	0.0035	mg/Kg	☼		08/14/24 09:06	1
Percent Moisture (EPA Moisture)	1.1	!	1.0	1.0	%			08/13/24 20:02	1

Client Sample ID: DEP51-S7V

Lab Sample ID: 410-183955-8

Date Collected: 08/13/24 11:25
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 79.3

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		25	12	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Antimony	1.2		0.25	0.10	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Arsenic	12		0.50	0.17	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Barium	130		0.50	0.23	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Beryllium	0.68		0.13	0.030	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Cadmium	0.49		0.13	0.050	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Calcium	18000		50	25	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Chromium	1000		2.5	1.2	mg/Kg	☼	08/14/24 21:30	08/16/24 14:25	10
Cobalt	16		0.25	0.10	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Copper	53		0.50	0.23	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Iron	29000		130	58	mg/Kg	☼	08/14/24 21:30	08/16/24 14:25	10
Lead	400		1.3	0.48	mg/Kg	☼	08/14/24 21:30	08/16/24 14:25	10
Magnesium	7700		13	6.2	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Manganese	560		0.50	0.25	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Nickel	58		0.50	0.24	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Potassium	4500		50	20	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Selenium	0.39	J	0.50	0.13	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Silver	0.14		0.13	0.051	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Sodium	180		63	30	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Thallium	0.29		0.13	0.049	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Vanadium	57		1.0	0.25	mg/Kg	☼	08/14/24 21:30	08/16/24 14:23	2
Zinc	420		190	25	mg/Kg	☼	08/14/24 21:30	08/16/24 14:25	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091		0.071	0.024	mg/Kg	☼	08/14/24 23:25	08/16/24 07:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	5.4	1.8	mg/Kg	☼	08/13/24 18:22	08/14/24 02:58	10
Cr (III) (SW846 7196A)	1000	!	0.011	0.0035	mg/Kg	☼		08/14/24 09:06	1
Percent Moisture (EPA Moisture)	20.7	!	1.0	1.0	%			08/13/24 20:02	1

Client Sample ID: DEP51-S8A-240813

Lab Sample ID: 410-183955-9

Date Collected: 08/13/24 11:30
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 80.8

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7000		22	11	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Antimony	1.0		0.22	0.089	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Arsenic	4.1		0.45	0.15	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Barium	68		0.45	0.20	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Beryllium	0.36		0.11	0.027	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Cadmium	0.15		0.11	0.045	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Calcium	20000		45	22	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Chromium	320		2.2	1.1	mg/Kg	☼	08/14/24 21:30	08/16/24 14:21	10
Cobalt	6.8		0.22	0.089	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Copper	9900		22	10	mg/Kg	☼	08/14/24 21:30	08/16/24 18:23	100
Iron	20000		22	10	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Lead	110		0.22	0.085	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Magnesium	6100		11	5.5	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Manganese	310		0.45	0.22	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Nickel	22		0.45	0.21	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Potassium	2700		45	18	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Selenium	0.14	J	0.45	0.11	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Silver	0.11		0.11	0.045	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Sodium	270		56	27	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Thallium	0.16		0.11	0.044	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Vanadium	26		0.89	0.22	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2
Zinc	130		33	4.5	mg/Kg	☼	08/14/24 21:30	08/16/24 14:19	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074		0.071	0.024	mg/Kg	☼	08/14/24 23:25	08/16/24 07:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	35		2.7	0.91	mg/Kg	☼	08/13/24 18:22	08/14/24 02:58	5
Cr (III) (SW846 7196A)	280	!	0.011	0.0035	mg/Kg	☼		08/14/24 09:06	1
Percent Moisture (EPA Moisture)	19.2	!	1.0	1.0	%			08/13/24 20:02	1

Client Sample ID: DEP51-S10A-240813

Lab Sample ID: 410-183955-10

Date Collected: 08/13/24 11:35
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 96.2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000	4	20	10	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Antimony	1.2	FL	0.20	0.081	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Arsenic	11		0.40	0.14	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Barium	130	FL	0.40	0.18	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Beryllium	0.78		0.10	0.024	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Cadmium	0.53		0.10	0.040	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Calcium	43000	4 F2	200	99	mg/Kg	☼	08/14/24 21:30	08/16/24 12:20	10
Chromium	720	4	2.0	0.96	mg/Kg	☼	08/14/24 21:30	08/16/24 12:20	10
Cobalt	15		0.20	0.081	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Copper	61	FL	0.40	0.18	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Iron	25000	4	100	47	mg/Kg	☼	08/14/24 21:30	08/16/24 12:20	10

Client Sample ID: DEP51-S10A-240813

Lab Sample ID: 410-183955-10

Date Collected: 08/13/24 11:35
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 96.2

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	210	4 F2	1.0	0.38	mg/Kg	☼	08/14/24 21:30	08/16/24 12:20	10
Magnesium	20000	4 F2	50	25	mg/Kg	☼	08/14/24 21:30	08/16/24 12:20	10
Manganese	580	4	0.40	0.20	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Nickel	48	FL	0.40	0.19	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Potassium	3700	4	40	16	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Selenium	0.42		0.40	0.10	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Silver	0.28		0.10	0.041	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Sodium	200	FH	50	24	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Thallium	0.28		0.10	0.040	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Vanadium	54		0.81	0.20	mg/Kg	☼	08/14/24 21:30	08/16/24 12:18	2
Zinc	370	4	150	20	mg/Kg	☼	08/14/24 21:30	08/16/24 12:20	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12	FL F2	0.060	0.020	mg/Kg	☼	08/14/24 23:25	08/16/24 06:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	4.5	1.5	mg/Kg	☼	08/14/24 20:09	08/15/24 00:33	10
Cr (III) (SW846 7196A)	720	!	0.011	0.0035	mg/Kg	☼		08/14/24 09:06	1
Percent Moisture (EPA Moisture)	3.8	!	1.0	1.0	%			08/13/24 20:02	1

Client Sample ID: DEP51-S14-240813

Lab Sample ID: 410-183955-11

Date Collected: 08/13/24 11:45
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 80.6

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16000		23	11	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Antimony	2.3		0.23	0.093	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Arsenic	7.9		0.46	0.16	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Barium	460		2.3	1.1	mg/Kg	☼	08/14/24 21:30	08/16/24 14:41	10
Beryllium	0.72		0.12	0.028	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Cadmium	0.48		0.12	0.046	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Calcium	20000		46	23	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Chromium	640		2.3	1.1	mg/Kg	☼	08/14/24 21:30	08/16/24 14:41	10
Cobalt	17		0.23	0.093	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Copper	88		0.46	0.21	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Iron	28000		120	53	mg/Kg	☼	08/14/24 21:30	08/16/24 14:41	10
Lead	260		1.2	0.44	mg/Kg	☼	08/14/24 21:30	08/16/24 14:41	10
Magnesium	7500		12	5.7	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Manganese	460		0.46	0.23	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Nickel	50		0.46	0.22	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Potassium	4500		46	19	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Selenium	0.42	J	0.46	0.12	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Silver	0.96		0.12	0.047	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Sodium	130		58	28	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Thallium	0.27		0.12	0.045	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Vanadium	50		0.93	0.23	mg/Kg	☼	08/14/24 21:30	08/16/24 14:39	2
Zinc	800		170	23	mg/Kg	☼	08/14/24 21:30	08/16/24 14:41	10

Client Sample ID: DEP51-S14-240813

Lab Sample ID: 410-183955-11

Date Collected: 08/13/24 11:45
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 80.6

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.071	0.024	mg/Kg	☼	08/14/24 23:25	08/16/24 07:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	5.2	1.7	mg/Kg	☼	08/14/24 20:09	08/15/24 00:33	10
Cr (III) (SW846 7196A)	640	!	0.011	0.0035	mg/Kg	☼		08/14/24 09:06	1
Percent Moisture (EPA Moisture)	19.4	!	1.0	1.0	%			08/13/24 20:02	1

Client Sample ID: DEP51-S15-240813

Lab Sample ID: 410-183955-12

Date Collected: 08/13/24 11:55
Matrix: Solid
Date Received: 08/13/24 16:15
Percent Solids: 75.8

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		24	12	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Antimony	0.97		0.24	0.098	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Arsenic	4.4		0.49	0.16	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Barium	100		0.49	0.22	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Beryllium	0.48		0.12	0.029	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Cadmium	0.50		0.12	0.049	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Calcium	19000		49	24	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Chromium	86		0.49	0.23	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Cobalt	9.7		0.24	0.098	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Copper	54		0.49	0.22	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Iron	21000		24	11	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Lead	190		0.24	0.093	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Magnesium	12000		12	6.0	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Manganese	380		0.49	0.24	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Nickel	21		0.49	0.23	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Potassium	3400		49	20	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Selenium	0.38	J	0.49	0.12	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Silver	0.14		0.12	0.050	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Sodium	140		61	29	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Thallium	0.24		0.12	0.048	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Vanadium	45		0.98	0.24	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2
Zinc	180		37	4.9	mg/Kg	☼	08/14/24 21:30	08/16/24 14:15	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.074	0.025	mg/Kg	☼	08/14/24 23:25	08/16/24 07:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	5.8	1.9	mg/Kg	☼	08/14/24 20:09	08/15/24 00:33	10
Cr (III) (SW846 7196A)	86	!	0.011	0.0035	mg/Kg	☼		08/14/24 09:06	1
Percent Moisture (EPA Moisture)	24.2	!	1.0	1.0	%			08/13/24 20:02	1

Client Sample ID: DEP51-W5-240813

Lab Sample ID: 410-183955-13

Date Collected: 08/13/24 12:30

Matrix: Water

Date Received: 08/13/24 16:15

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	^3+	26	12	ug/L		08/14/24 13:20	08/14/24 22:28	1
Antimony	**1.2**		1.0	0.21	ug/L		08/14/24 13:20	08/14/24 22:28	1
Arsenic	**0.86**	**J**	2.1	0.70	ug/L		08/14/24 13:20	08/14/24 22:28	1
Barium	**65**		2.1	0.77	ug/L		08/14/24 13:20	08/22/24 18:51	1
Beryllium	ND	^3+ ^+	0.52	0.12	ug/L		08/14/24 13:20	08/14/24 22:28	1
Cadmium	ND	^3+	0.52	0.16	ug/L		08/14/24 13:20	08/14/24 22:28	1
Calcium	**89000**		120	52	ug/L		08/14/24 13:20	08/22/24 18:51	1
Chromium	**19000**		210	57	ug/L		08/14/24 13:20	08/22/24 19:54	100
Cobalt	**0.94**		0.52	0.16	ug/L		08/14/24 13:20	08/22/24 18:51	1
Copper	**2.4**		1.0	0.37	ug/L		08/14/24 13:20	08/22/24 18:51	1
Iron	ND	^3+	52	21	ug/L		08/14/24 13:20	08/14/24 22:28	1
Lead	ND		0.52	0.12	ug/L		08/14/24 13:20	08/14/24 22:28	1
Magnesium	**8000**		52	16	ug/L		08/14/24 13:20	08/22/24 18:51	1
Manganese	ND		2.1	0.98	ug/L		08/14/24 13:20	08/14/24 22:28	1
Nickel	**0.97**	**J**	1.0	0.41	ug/L		08/14/24 13:20	08/23/24 14:15	1
Potassium	**13000**		210	67	ug/L		08/14/24 13:20	08/14/24 22:28	1
Selenium	**1.0**		1.0	0.29	ug/L		08/14/24 13:20	08/14/24 22:28	1
Silver	ND		0.52	0.10	ug/L		08/14/24 13:20	08/14/24 22:28	1
Sodium	**47000**	**^2**	210	93	ug/L		08/14/24 13:20	08/22/24 18:51	1
Thallium	ND		0.52	0.13	ug/L		08/14/24 13:20	08/14/24 22:28	1
Vanadium	**5.0**		4.1	0.82	ug/L		08/14/24 13:20	08/14/24 22:28	1
Zinc	ND		10	4.1	ug/L		08/14/24 13:20	08/14/24 22:28	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		08/15/24 05:14	08/15/24 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	ND	!	0.030	0.010	mg/L			08/16/24 07:33	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**20**		3.0	1.0	mg/L			08/13/24 21:20	100

Client Sample ID: DEP51-W6-240813

Lab Sample ID: 410-183955-14

Date Collected: 08/13/24 12:55

Matrix: Water

Date Received: 08/13/24 16:15

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**220**		26	12	ug/L		08/14/24 10:30	08/22/24 18:49	1
Antimony	**1.0**		1.0	0.21	ug/L		08/14/24 10:30	08/14/24 19:44	1
Arsenic	**3.9**		2.1	0.70	ug/L		08/14/24 10:30	08/14/24 19:44	1
Barium	**54**		2.1	0.77	ug/L		08/14/24 10:30	08/22/24 18:49	1
Beryllium	ND	^3+ ^+	0.52	0.12	ug/L		08/14/24 10:30	08/14/24 19:44	1
Cadmium	ND	^3+	0.52	0.16	ug/L		08/14/24 10:30	08/14/24 19:44	1
Calcium	**190000**		1200	520	ug/L		08/14/24 10:30	08/22/24 19:30	10
Chromium	**27000**		210	57	ug/L		08/14/24 10:30	08/22/24 19:52	100
Cobalt	**1.1**		0.52	0.16	ug/L		08/14/24 10:30	08/22/24 18:49	1
Copper	**9.3**		1.0	0.37	ug/L		08/14/24 10:30	08/22/24 18:49	1

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-183955-1

Client Sample ID: DEP51-W6-240813
Date Collected: 08/13/24 12:55
Date Received: 08/13/24 16:15

Lab Sample ID: 410-183955-14
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND	^3+	52	21	ug/L		08/14/24 10:30	08/14/24 19:44	1
Lead	ND		0.52	0.12	ug/L		08/14/24 10:30	08/14/24 19:44	1
Magnesium	**4100**		52	16	ug/L		08/14/24 10:30	08/14/24 19:44	1
Manganese	ND		2.1	0.98	ug/L		08/14/24 10:30	08/14/24 19:44	1
Nickel	**2.6**		1.0	0.41	ug/L		08/14/24 10:30	08/23/24 14:13	1
Potassium	**14000**		210	67	ug/L		08/14/24 10:30	08/14/24 19:44	1
Selenium	**2.1**		1.0	0.29	ug/L		08/14/24 10:30	08/14/24 19:44	1
Silver	ND		0.52	0.10	ug/L		08/14/24 10:30	08/14/24 19:44	1
Sodium	**62000**	**^2**	210	93	ug/L		08/14/24 10:30	08/22/24 18:49	1
Thallium	ND		0.52	0.13	ug/L		08/14/24 10:30	08/14/24 19:44	1
Vanadium	**14**		4.1	0.82	ug/L		08/14/24 10:30	08/14/24 19:44	1
Zinc	ND		10	4.1	ug/L		08/14/24 10:30	08/14/24 19:44	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		08/15/24 05:14	08/15/24 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	ND	!	0.030	0.010	mg/L			08/16/24 07:33	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**29**		3.0	1.0	mg/L			08/13/24 21:20	100

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-540014/1-A ^2
Matrix: Solid
Analysis Batch: 542036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	9.9	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Antimony	ND		0.20	0.080	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Arsenic	ND		0.40	0.13	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Barium	ND		0.40	0.18	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Beryllium	ND		0.10	0.024	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Cadmium	ND		0.10	0.040	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Calcium	ND		40	20	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Chromium	ND		0.40	0.19	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Cobalt	ND		0.20	0.080	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Copper	ND		0.40	0.18	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Iron	ND		20	9.2	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Lead	ND		0.20	0.076	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Magnesium	ND		10	4.9	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Manganese	ND		0.40	0.20	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Nickel	ND		0.40	0.19	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Potassium	ND		40	16	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Selenium	ND		0.40	0.10	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Silver	ND		0.10	0.041	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Sodium	ND		50	24	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Thallium	ND		0.10	0.039	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Vanadium	ND		0.80	0.20	mg/Kg		08/14/24 07:00	08/19/24 09:51	2
Zinc	ND		30	4.0	mg/Kg		08/14/24 07:00	08/19/24 09:51	2

Lab Sample ID: LCS 410-540014/2-A ^2
Matrix: Solid
Analysis Batch: 542036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540014

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	500	485		mg/Kg		97	83 - 119
Antimony	10.0	9.68		mg/Kg		97	87 - 116
Arsenic	50.0	48.1		mg/Kg		96	87 - 114
Barium	50.0	48.1		mg/Kg		96	87 - 117
Beryllium	5.00	4.93		mg/Kg		99	80 - 120
Cadmium	5.00	4.86		mg/Kg		97	88 - 117
Calcium	500	491		mg/Kg		98	84 - 119
Chromium	50.0	47.3		mg/Kg		95	86 - 116
Cobalt	50.0	46.8		mg/Kg		94	85 - 115
Copper	50.0	46.3		mg/Kg		93	84 - 115
Iron	500	483		mg/Kg		97	87 - 117
Lead	5.00	4.95		mg/Kg		99	88 - 117
Magnesium	500	478		mg/Kg		96	83 - 119
Manganese	50.0	47.9		mg/Kg		96	87 - 116
Nickel	50.0	47.7		mg/Kg		95	87 - 115
Potassium	500	470		mg/Kg		94	83 - 118
Selenium	10.0	9.45		mg/Kg		94	87 - 115
Silver	5.00	4.88		mg/Kg		98	88 - 117
Sodium	500	479		mg/Kg		96	81 - 120
Thallium	10.0	9.76		mg/Kg		98	87 - 116
Vanadium	50.0	47.3		mg/Kg		95	86 - 115

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-540014/2-A ^2
Matrix: Solid
Analysis Batch: 542036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540014

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	50.0	48.1		mg/Kg		96	86 - 116

Lab Sample ID: MB 410-540227/1-A
Matrix: Water
Analysis Batch: 540667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	^3+	26	12	ug/L		08/14/24 10:30	08/14/24 19:20	1
Antimony	ND		1.0	0.21	ug/L		08/14/24 10:30	08/14/24 19:20	1
Arsenic	ND		2.1	0.70	ug/L		08/14/24 10:30	08/14/24 19:20	1
Beryllium	ND	^3+ ^+	0.52	0.12	ug/L		08/14/24 10:30	08/14/24 19:20	1
Cadmium	ND	^3+	0.52	0.16	ug/L		08/14/24 10:30	08/14/24 19:20	1
Chromium	ND		2.1	0.57	ug/L		08/14/24 10:30	08/14/24 19:20	1
Iron	ND	^3+	52	21	ug/L		08/14/24 10:30	08/14/24 19:20	1
Lead	ND		0.52	0.12	ug/L		08/14/24 10:30	08/14/24 19:20	1
Magnesium	ND		52	16	ug/L		08/14/24 10:30	08/14/24 19:20	1
Manganese	ND		2.1	0.98	ug/L		08/14/24 10:30	08/14/24 19:20	1
Potassium	ND		210	67	ug/L		08/14/24 10:30	08/14/24 19:20	1
Selenium	ND		1.0	0.29	ug/L		08/14/24 10:30	08/14/24 19:20	1
Silver	ND		0.52	0.10	ug/L		08/14/24 10:30	08/14/24 19:20	1
Thallium	ND		0.52	0.13	ug/L		08/14/24 10:30	08/14/24 19:20	1
Vanadium	ND		4.1	0.82	ug/L		08/14/24 10:30	08/14/24 19:20	1
Zinc	ND		10	4.1	ug/L		08/14/24 10:30	08/14/24 19:20	1

Lab Sample ID: MB 410-540227/1-A
Matrix: Water
Analysis Batch: 543667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		2.1	0.77	ug/L		08/14/24 10:30	08/22/24 18:41	1
Calcium	ND		120	52	ug/L		08/14/24 10:30	08/22/24 18:41	1
Cobalt	ND		0.52	0.16	ug/L		08/14/24 10:30	08/22/24 18:41	1
Copper	ND		1.0	0.37	ug/L		08/14/24 10:30	08/22/24 18:41	1
Sodium	ND		210	93	ug/L		08/14/24 10:30	08/22/24 18:41	1

Lab Sample ID: MB 410-540227/1-A
Matrix: Water
Analysis Batch: 543974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		1.0	0.41	ug/L		08/14/24 10:30	08/23/24 14:05	1

Lab Sample ID: LCS 410-540227/2-A
Matrix: Water
Analysis Batch: 540667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	101		ug/L		101	90 - 115
Arsenic	500	501		ug/L		100	90 - 109
Chromium	500	477		ug/L		95	90 - 110

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-540227/2-A
Matrix: Water
Analysis Batch: 540667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	50.0	49.1		ug/L		98	90 - 110
Magnesium	5000	4850		ug/L		97	90 - 110
Manganese	500	481		ug/L		96	90 - 111
Potassium	5000	4920		ug/L		98	90 - 110
Selenium	100	94.7		ug/L		95	90 - 110
Silver	50.0	49.3		ug/L		99	90 - 112
Thallium	100	98.7		ug/L		99	90 - 110
Vanadium	500	480		ug/L		96	90 - 109
Zinc	500	493		ug/L		99	90 - 112

Lab Sample ID: LCS 410-540227/2-A
Matrix: Water
Analysis Batch: 543667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	4940		ug/L		99	90 - 110
Barium	500	497		ug/L		99	90 - 113
Beryllium	50.0	52.6		ug/L		105	82 - 120
Cadmium	50.0	50.0		ug/L		100	90 - 112
Calcium	5000	4890		ug/L		98	90 - 112
Cobalt	500	492		ug/L		98	90 - 110
Copper	500	495		ug/L		99	90 - 110
Iron	5000	4950		ug/L		99	90 - 111
Nickel	500	501		ug/L		100	90 - 109
Sodium	5000	5010		ug/L		100	89 - 114

Lab Sample ID: MB 410-540323/1-A
Matrix: Water
Analysis Batch: 540667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND	^3+	26	12	ug/L		08/14/24 13:20	08/14/24 22:06	1
Antimony	ND		1.0	0.21	ug/L		08/14/24 13:20	08/14/24 22:06	1
Arsenic	ND		2.1	0.70	ug/L		08/14/24 13:20	08/14/24 22:06	1
Beryllium	ND	^3+	0.52	0.12	ug/L		08/14/24 13:20	08/14/24 22:06	1
Cadmium	ND	^3+	0.52	0.16	ug/L		08/14/24 13:20	08/14/24 22:06	1
Chromium	ND		2.1	0.57	ug/L		08/14/24 13:20	08/14/24 22:06	1
Iron	ND	^3+	52	21	ug/L		08/14/24 13:20	08/14/24 22:06	1
Lead	ND		0.52	0.12	ug/L		08/14/24 13:20	08/14/24 22:06	1
Manganese	ND		2.1	0.98	ug/L		08/14/24 13:20	08/14/24 22:06	1
Potassium	ND		210	67	ug/L		08/14/24 13:20	08/14/24 22:06	1
Selenium	ND		1.0	0.29	ug/L		08/14/24 13:20	08/14/24 22:06	1
Silver	ND		0.52	0.10	ug/L		08/14/24 13:20	08/14/24 22:06	1
Thallium	ND		0.52	0.13	ug/L		08/14/24 13:20	08/14/24 22:06	1
Vanadium	ND		4.1	0.82	ug/L		08/14/24 13:20	08/14/24 22:06	1
Zinc	ND		10	4.1	ug/L		08/14/24 13:20	08/14/24 22:06	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-540323/1-A
Matrix: Water
Analysis Batch: 543667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		2.1	0.77	ug/L		08/14/24 13:20	08/22/24 18:43	1
Calcium	ND		120	52	ug/L		08/14/24 13:20	08/22/24 18:43	1
Cobalt	ND		0.52	0.16	ug/L		08/14/24 13:20	08/22/24 18:43	1
Copper	ND		1.0	0.37	ug/L		08/14/24 13:20	08/22/24 18:43	1
Magnesium	ND		52	16	ug/L		08/14/24 13:20	08/22/24 18:43	1
Sodium	ND		210	93	ug/L		08/14/24 13:20	08/22/24 18:43	1

Lab Sample ID: MB 410-540323/1-A
Matrix: Water
Analysis Batch: 543974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		1.0	0.41	ug/L		08/14/24 13:20	08/23/24 14:07	1

Lab Sample ID: LCS 410-540323/2-A
Matrix: Water
Analysis Batch: 540667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	91.2		ug/L		91	90 - 115
Arsenic	500	483		ug/L		97	90 - 109
Chromium	500	456		ug/L		91	90 - 110
Lead	50.0	47.3		ug/L		95	90 - 110
Magnesium	5000	4530		ug/L		91	90 - 110
Manganese	500	468		ug/L		94	90 - 111
Potassium	5000	4840		ug/L		97	90 - 110
Selenium	100	89.6		ug/L		90	90 - 110
Silver	50.0	46.8		ug/L		94	90 - 112
Thallium	100	94.9		ug/L		95	90 - 110
Vanadium	500	462		ug/L		92	90 - 109
Zinc	500	469		ug/L		94	90 - 112

Lab Sample ID: LCS 410-540323/2-A
Matrix: Water
Analysis Batch: 543667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	4780		ug/L		96	90 - 110
Barium	500	488		ug/L		98	90 - 113
Beryllium	50.0	51.2		ug/L		102	82 - 120
Cadmium	50.0	48.2		ug/L		96	90 - 112
Calcium	5000	4680		ug/L		94	90 - 112
Cobalt	500	476		ug/L		95	90 - 110
Copper	500	476		ug/L		95	90 - 110
Iron	5000	4820		ug/L		96	90 - 111
Nickel	500	481		ug/L		96	90 - 109
Sodium	5000	4790		ug/L		96	89 - 114

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-540494/1-A ^2
Matrix: Solid
Analysis Batch: 541432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	9.9	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Antimony	ND		0.20	0.080	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Arsenic	ND		0.40	0.13	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Barium	ND		0.40	0.18	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Beryllium	ND		0.10	0.024	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Cadmium	ND		0.10	0.040	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Calcium	ND		40	20	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Chromium	ND		0.40	0.19	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Cobalt	ND		0.20	0.080	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Copper	ND		0.40	0.18	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Iron	ND		20	9.2	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Lead	ND		0.20	0.076	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Magnesium	ND		10	4.9	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Manganese	ND		0.40	0.20	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Nickel	ND		0.40	0.19	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Potassium	ND		40	16	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Selenium	ND		0.40	0.10	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Silver	ND		0.10	0.041	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Sodium	ND		50	24	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Thallium	ND		0.10	0.039	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Vanadium	ND		0.80	0.20	mg/Kg		08/14/24 21:30	08/16/24 12:14	2
Zinc	ND		30	4.0	mg/Kg		08/14/24 21:30	08/16/24 12:14	2

Lab Sample ID: LCS 410-540494/2-A ^2
Matrix: Solid
Analysis Batch: 541432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	500	489		mg/Kg		98	83 - 119
Antimony	10.0	9.37		mg/Kg		94	87 - 116
Arsenic	50.0	48.5		mg/Kg		97	87 - 114
Barium	50.0	48.5		mg/Kg		97	87 - 117
Beryllium	5.00	4.81		mg/Kg		96	80 - 120
Cadmium	5.00	4.75		mg/Kg		95	88 - 117
Calcium	500	501		mg/Kg		100	84 - 119
Chromium	50.0	48.7		mg/Kg		97	86 - 116
Cobalt	50.0	49.6		mg/Kg		99	85 - 115
Copper	50.0	49.4		mg/Kg		99	84 - 115
Iron	500	499		mg/Kg		100	87 - 117
Lead	5.00	4.97		mg/Kg		99	88 - 117
Magnesium	500	492		mg/Kg		98	83 - 119
Manganese	50.0	49.4		mg/Kg		99	87 - 116
Nickel	50.0	49.7		mg/Kg		99	87 - 115
Potassium	500	490		mg/Kg		98	83 - 118
Selenium	10.0	9.62		mg/Kg		96	87 - 115
Silver	5.00	4.94		mg/Kg		99	88 - 117
Sodium	500	478		mg/Kg		96	81 - 120
Thallium	10.0	10.0		mg/Kg		100	87 - 116
Vanadium	50.0	48.5		mg/Kg		97	86 - 115

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-540494/2-A ^2
Matrix: Solid
Analysis Batch: 541432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540494

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Zinc			50.0	50.4		mg/Kg		101	86 - 116		

Lab Sample ID: 410-183955-10 MS
Matrix: Solid
Analysis Batch: 541432

Client Sample ID: DEP51-S10A-240813
Prep Type: Total/NA
Prep Batch: 540494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum	14000	4	477	16700	4	mg/Kg	☼	505	75 - 125		
Antimony	1.2	FL	9.54	8.14	FL	mg/Kg	☼	73	75 - 125		
Arsenic	11		47.7	54.7		mg/Kg	☼	92	75 - 125		
Barium	130	FL	47.7	164	FL	mg/Kg	☼	65	75 - 125		
Beryllium	0.78		4.77	5.54		mg/Kg	☼	100	75 - 125		
Cadmium	0.53		4.77	4.94		mg/Kg	☼	92	75 - 125		
Cobalt	15		47.7	56.5		mg/Kg	☼	88	75 - 125		
Copper	61	FL	47.7	88.9	FL	mg/Kg	☼	59	75 - 125		
Manganese	580	4	47.7	546	4	mg/Kg	☼	-68	75 - 125		
Nickel	48	FL	47.7	81.5	FL	mg/Kg	☼	70	75 - 125		
Potassium	3700	4	477	3900	4	mg/Kg	☼	52	75 - 125		
Selenium	0.42		9.54	9.56		mg/Kg	☼	96	75 - 125		
Silver	0.28		4.77	4.74		mg/Kg	☼	93	75 - 125		
Sodium	200	FH	477	869	FH	mg/Kg	☼	140	75 - 125		
Thallium	0.28		9.54	8.86		mg/Kg	☼	90	75 - 125		
Vanadium	54		47.7	99.0		mg/Kg	☼	94	75 - 125		

Lab Sample ID: 410-183955-10 MS
Matrix: Solid
Analysis Batch: 541432

Client Sample ID: DEP51-S10A-240813
Prep Type: Total/NA
Prep Batch: 540494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	43000	4 F2	477	63800	4	mg/Kg	☼	4355	75 - 125		
Chromium	720	4	47.7	540	4	mg/Kg	☼	-374	75 - 125		
Iron	25000	4	477	21400	4	mg/Kg	☼	-778	75 - 125		
Lead	210	4 F2	4.77	143	4	mg/Kg	☼	-1362	75 - 125		
Magnesium	20000	4 F2	477	37000	4	mg/Kg	☼	3511	75 - 125		
Zinc	370	4	47.7	304	4	mg/Kg	☼	-134	75 - 125		

Lab Sample ID: 410-183955-10 MSD
Matrix: Solid
Analysis Batch: 541432

Client Sample ID: DEP51-S10A-240813
Prep Type: Total/NA
Prep Batch: 540494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	14000	4	520	16500	4	mg/Kg	☼	426	75 - 125	1	20
Antimony	1.2	FL	10.4	9.52		mg/Kg	☼	80	75 - 125	16	20
Arsenic	11		52.0	60.5		mg/Kg	☼	96	75 - 125	10	20
Barium	130	FL	52.0	162	FL	mg/Kg	☼	56	75 - 125	1	20
Beryllium	0.78		5.20	5.90		mg/Kg	☼	99	75 - 125	6	20
Cadmium	0.53		5.20	5.45		mg/Kg	☼	95	75 - 125	10	20
Cobalt	15		52.0	62.7		mg/Kg	☼	92	75 - 125	10	20
Copper	61	FL	52.0	98.5	FL	mg/Kg	☼	73	75 - 125	10	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-183955-10 MSD
Matrix: Solid
Analysis Batch: 541432

Client Sample ID: DEP51-S10A-240813
Prep Type: Total/NA
Prep Batch: 540494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	580	4	52.0	528	4	mg/Kg	☼	-98	75 - 125	3	20
Nickel	48	FL	52.0	87.6		mg/Kg	☼	76	75 - 125	7	20
Potassium	3700	4	520	3990	4	mg/Kg	☼	66	75 - 125	2	20
Selenium	0.42		10.4	10.4		mg/Kg	☼	96	75 - 125	8	20
Silver	0.28		5.20	5.28		mg/Kg	☼	96	75 - 125	11	20
Sodium	200	FH	520	726		mg/Kg	☼	100	75 - 125	18	20
Thallium	0.28		10.4	9.80		mg/Kg	☼	92	75 - 125	10	20
Vanadium	54		52.0	95.6		mg/Kg	☼	79	75 - 125	4	20

Lab Sample ID: 410-183955-10 MSD
Matrix: Solid
Analysis Batch: 541432

Client Sample ID: DEP51-S10A-240813
Prep Type: Total/NA
Prep Batch: 540494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	43000	4 F2	520	42900	4 F2	mg/Kg	☼	-20	75 - 125	39	20
Chromium	720	4	52.0	563	4	mg/Kg	☼	-300	75 - 125	4	20
Iron	25000	4	520	22000	4	mg/Kg	☼	-600	75 - 125	3	20
Lead	210	4 F2	5.20	208	4 F2	mg/Kg	☼	8	75 - 125	37	20
Magnesium	20000	4 F2	520	20600	4 F2	mg/Kg	☼	55	75 - 125	57	20
Zinc	370	4	52.0	317	4	mg/Kg	☼	-99	75 - 125	4	20

Lab Sample ID: 410-183955-10 DU
Matrix: Solid
Analysis Batch: 541432

Client Sample ID: DEP51-S10A-240813
Prep Type: Total/NA
Prep Batch: 540494

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	14000	4		13900		mg/Kg	☼			2	20
Antimony	1.2	FL		1.05		mg/Kg	☼			13	20
Arsenic	11			10.4		mg/Kg	☼			4	20
Barium	130	FL		128		mg/Kg	☼			4	20
Beryllium	0.78			0.797		mg/Kg	☼			2	20
Cadmium	0.53			0.482		mg/Kg	☼			9	20
Cobalt	15			14.3		mg/Kg	☼			2	20
Copper	61	FL		55.5		mg/Kg	☼			9	20
Manganese	580	4		590		mg/Kg	☼			2	20
Nickel	48	FL		43.6		mg/Kg	☼			10	20
Potassium	3700	4		3700		mg/Kg	☼			1	20
Selenium	0.42			0.449		mg/Kg	☼			6	20
Silver	0.28			0.145	F3	mg/Kg	☼			63	20
Sodium	200	FH		200		mg/Kg	☼			2	20
Thallium	0.28			0.260		mg/Kg	☼			8	20
Vanadium	54			56.8		mg/Kg	☼			4	20

Lab Sample ID: 410-183955-10 DU
Matrix: Solid
Analysis Batch: 541432

Client Sample ID: DEP51-S10A-240813
Prep Type: Total/NA
Prep Batch: 540494

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Calcium	43000	4 F2		68500	F3	mg/Kg	☼			46	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-183955-10 DU — **Client Sample ID: DEP51-S10A-240813**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 541432 — **Prep Batch: 540494**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium	720	4	629		mg/Kg	☼	13	20
Iron	25000	4	23500		mg/Kg	☼	7	20
Lead	210	4 F2	157	F3	mg/Kg	☼	28	20
Magnesium	20000	4 F2	37400	F3	mg/Kg	☼	59	20
Zinc	370	4	288	F5	mg/Kg	☼	25	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-540540/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540904 — **Prep Batch: 540540**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		08/15/24 05:14	08/15/24 13:58	1

Lab Sample ID: LCS 410-540540/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540904 — **Prep Batch: 540540**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.979		ug/L		98	80 - 118

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-540013/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 541279 — **Prep Batch: 540013**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.060	0.020	mg/Kg		08/14/24 23:25	08/16/24 06:27	1

Lab Sample ID: LCS 410-540013/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 541279 — **Prep Batch: 540013**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.171		mg/Kg		103	80 - 120

Lab Sample ID: 410-183955-10 MS — **Client Sample ID: DEP51-S10A-240813**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 541279 — **Prep Batch: 540013**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.12	FL F2	0.173	0.153	FL	mg/Kg	☼	19	80 - 120

Lab Sample ID: 410-183955-10 MSD — **Client Sample ID: DEP51-S10A-240813**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 541279 — **Prep Batch: 540013**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.12	FL F2	0.160	0.240	FL F2	mg/Kg	☼	75	80 - 120	44	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: 410-183955-10 DU
Matrix: Solid
Analysis Batch: 541279

Client Sample ID: DEP51-S10A-240813
Prep Type: Total/NA
Prep Batch: 540013

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.12	FL F2	0.0790	F5	mg/Kg	☼	41	20

Lab Sample ID: MB 410-540496/1-A
Matrix: Solid
Analysis Batch: 541279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.060	0.020	mg/Kg		08/14/24 23:25	08/16/24 09:33	1

Lab Sample ID: LCS 410-540496/2-A
Matrix: Solid
Analysis Batch: 541279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.182		mg/Kg		109	80 - 120

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 410-539922/1-A
Matrix: Solid
Analysis Batch: 540001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.42	0.14	mg/Kg		08/13/24 18:22	08/14/24 02:58	1

Lab Sample ID: LCS 410-539922/2-A
Matrix: Solid
Analysis Batch: 540001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	5.00	4.68		mg/Kg		94	80 - 120

Lab Sample ID: LCSI 410-539922/3-A
Matrix: Solid
Analysis Batch: 540001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539922

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	714	679		mg/Kg		95	80 - 120

Lab Sample ID: 410-183955-7 MSI
Matrix: Solid
Analysis Batch: 540001

Client Sample ID: DEP51-S13-240813
Prep Type: Total/NA
Prep Batch: 539922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	ND	cn	901	846		mg/Kg	☼	94	75 - 125

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 410-183955-7 MSS — **Client Sample ID: DEP51-S13-240813**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 540001 — **Prep Batch: 539922**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	ND	cn	40.1	33.8		mg/Kg	☼	84	75 - 125

Lab Sample ID: 410-183955-7 DU — **Client Sample ID: DEP51-S13-240813**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 540001 — **Prep Batch: 539922**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	ND	cn	ND		mg/Kg	☼	NC	20

Lab Sample ID: MB 410-539978/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 539978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.030	0.010	mg/L			08/13/24 21:20	1

Lab Sample ID: LCS 410-539978/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 539978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.200	0.207		mg/L		103	90 - 110

Lab Sample ID: LCSD 410-539978/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 539978

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.200	0.201		mg/L		100	90 - 110	3	5

Lab Sample ID: MB 410-540481/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 540529 — **Prep Batch: 540481**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.42	0.14	mg/Kg		08/14/24 20:09	08/15/24 00:33	1

Lab Sample ID: LCS 410-540481/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 540529 — **Prep Batch: 540481**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	5.00	4.62		mg/Kg		92	80 - 120

Lab Sample ID: LCSI 410-540481/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 540529 — **Prep Batch: 540481**

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	720	724		mg/Kg		101	80 - 120

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-183955-1

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: 410-183955-13 DU
Matrix: Water
Analysis Batch: 539978

Client Sample ID: DEP51-W5-240813
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cr (VI)	20			19.8		mg/L				1	5

Metals

Prep Batch: 540013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-4	DEP51-S5-240813	Total/NA	Solid	7471B	
410-183955-5	DEP51-S6-240813	Total/NA	Solid	7471B	
410-183955-6	DUP-SB-240813	Total/NA	Solid	7471B	
410-183955-7	DEP51-S13-240813	Total/NA	Solid	7471B	
410-183955-8	DEP51-S7V	Total/NA	Solid	7471B	
410-183955-9	DEP51-S8A-240813	Total/NA	Solid	7471B	
410-183955-10	DEP51-S10A-240813	Total/NA	Solid	7471B	
410-183955-11	DEP51-S14-240813	Total/NA	Solid	7471B	
410-183955-12	DEP51-S15-240813	Total/NA	Solid	7471B	
MB 410-540013/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 410-540013/2-A	Lab Control Sample	Total/NA	Solid	7471B	
410-183955-10 MS	DEP51-S10A-240813	Total/NA	Solid	7471B	
410-183955-10 MSD	DEP51-S10A-240813	Total/NA	Solid	7471B	
410-183955-10 DU	DEP51-S10A-240813	Total/NA	Solid	7471B	

Prep Batch: 540014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-1	DEP51-S12-240813	Total/NA	Solid	3050B	
410-183955-2	DUP-SA-240813	Total/NA	Solid	3050B	
MB 410-540014/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-540014/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 540227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-14	DEP51-W6-240813	Dissolved	Water	Non-Digest Prep	
MB 410-540227/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-540227/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 540323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-13	DEP51-W5-240813	Dissolved	Water	Non-Digest Prep	
MB 410-540323/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-540323/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 540494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-3	DEP51-S3-240813	Total/NA	Solid	3050B	
410-183955-4	DEP51-S5-240813	Total/NA	Solid	3050B	
410-183955-5	DEP51-S6-240813	Total/NA	Solid	3050B	
410-183955-6	DUP-SB-240813	Total/NA	Solid	3050B	
410-183955-7	DEP51-S13-240813	Total/NA	Solid	3050B	
410-183955-8	DEP51-S7V	Total/NA	Solid	3050B	
410-183955-9	DEP51-S8A-240813	Total/NA	Solid	3050B	
410-183955-10	DEP51-S10A-240813	Total/NA	Solid	3050B	
410-183955-11	DEP51-S14-240813	Total/NA	Solid	3050B	
410-183955-12	DEP51-S15-240813	Total/NA	Solid	3050B	
MB 410-540494/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-540494/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
410-183955-10 MS	DEP51-S10A-240813	Total/NA	Solid	3050B	
410-183955-10 MSD	DEP51-S10A-240813	Total/NA	Solid	3050B	
410-183955-10 DU	DEP51-S10A-240813	Total/NA	Solid	3050B	

Metals

Prep Batch: 540496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-1	DEP51-S12-240813	Total/NA	Solid	7471B	
410-183955-2	DUP-SA-240813	Total/NA	Solid	7471B	
410-183955-3	DEP51-S3-240813	Total/NA	Solid	7471B	
MB 410-540496/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 410-540496/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 540540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-13	DEP51-W5-240813	Dissolved	Water	7470A	
410-183955-14	DEP51-W6-240813	Dissolved	Water	7470A	
MB 410-540540/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-540540/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 540667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-13	DEP51-W5-240813	Dissolved	Water	6020B	540323
410-183955-14	DEP51-W6-240813	Dissolved	Water	6020B	540227
MB 410-540227/1-A	Method Blank	Total/NA	Water	6020B	540227
MB 410-540323/1-A	Method Blank	Total/NA	Water	6020B	540323
LCS 410-540227/2-A	Lab Control Sample	Total/NA	Water	6020B	540227
LCS 410-540323/2-A	Lab Control Sample	Total/NA	Water	6020B	540323

Analysis Batch: 540904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-13	DEP51-W5-240813	Dissolved	Water	7470A	540540
410-183955-14	DEP51-W6-240813	Dissolved	Water	7470A	540540
MB 410-540540/1-A	Method Blank	Total/NA	Water	7470A	540540
LCS 410-540540/2-A	Lab Control Sample	Total/NA	Water	7470A	540540

Analysis Batch: 541279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-1	DEP51-S12-240813	Total/NA	Solid	7471B	540496
410-183955-2	DUP-SA-240813	Total/NA	Solid	7471B	540496
410-183955-3	DEP51-S3-240813	Total/NA	Solid	7471B	540496
410-183955-4	DEP51-S5-240813	Total/NA	Solid	7471B	540013
410-183955-5	DEP51-S6-240813	Total/NA	Solid	7471B	540013
410-183955-6	DUP-SB-240813	Total/NA	Solid	7471B	540013
410-183955-7	DEP51-S13-240813	Total/NA	Solid	7471B	540013
410-183955-8	DEP51-S7V	Total/NA	Solid	7471B	540013
410-183955-9	DEP51-S8A-240813	Total/NA	Solid	7471B	540013
410-183955-10	DEP51-S10A-240813	Total/NA	Solid	7471B	540013
410-183955-11	DEP51-S14-240813	Total/NA	Solid	7471B	540013
410-183955-12	DEP51-S15-240813	Total/NA	Solid	7471B	540013
MB 410-540013/1-A	Method Blank	Total/NA	Solid	7471B	540013
MB 410-540496/1-A	Method Blank	Total/NA	Solid	7471B	540496
LCS 410-540013/2-A	Lab Control Sample	Total/NA	Solid	7471B	540013
LCS 410-540496/2-A	Lab Control Sample	Total/NA	Solid	7471B	540496
410-183955-10 MS	DEP51-S10A-240813	Total/NA	Solid	7471B	540013
410-183955-10 MSD	DEP51-S10A-240813	Total/NA	Solid	7471B	540013
410-183955-10 DU	DEP51-S10A-240813	Total/NA	Solid	7471B	540013

Metals

Analysis Batch: 541432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-3	DEP51-S3-240813	Total/NA	Solid	6020B	540494
410-183955-3	DEP51-S3-240813	Total/NA	Solid	6020B	540494
410-183955-4	DEP51-S5-240813	Total/NA	Solid	6020B	540494
410-183955-4	DEP51-S5-240813	Total/NA	Solid	6020B	540494
410-183955-5	DEP51-S6-240813	Total/NA	Solid	6020B	540494
410-183955-5	DEP51-S6-240813	Total/NA	Solid	6020B	540494
410-183955-6	DUP-SB-240813	Total/NA	Solid	6020B	540494
410-183955-6	DUP-SB-240813	Total/NA	Solid	6020B	540494
410-183955-7	DEP51-S13-240813	Total/NA	Solid	6020B	540494
410-183955-7	DEP51-S13-240813	Total/NA	Solid	6020B	540494
410-183955-8	DEP51-S7V	Total/NA	Solid	6020B	540494
410-183955-8	DEP51-S7V	Total/NA	Solid	6020B	540494
410-183955-9	DEP51-S8A-240813	Total/NA	Solid	6020B	540494
410-183955-9	DEP51-S8A-240813	Total/NA	Solid	6020B	540494
410-183955-10	DEP51-S10A-240813	Total/NA	Solid	6020B	540494
410-183955-10	DEP51-S10A-240813	Total/NA	Solid	6020B	540494
410-183955-11	DEP51-S14-240813	Total/NA	Solid	6020B	540494
410-183955-11	DEP51-S14-240813	Total/NA	Solid	6020B	540494
410-183955-12	DEP51-S15-240813	Total/NA	Solid	6020B	540494
MB 410-540494/1-A ^2	Method Blank	Total/NA	Solid	6020B	540494
LCS 410-540494/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	540494
410-183955-10 MS	DEP51-S10A-240813	Total/NA	Solid	6020B	540494
410-183955-10 MS	DEP51-S10A-240813	Total/NA	Solid	6020B	540494
410-183955-10 MSD	DEP51-S10A-240813	Total/NA	Solid	6020B	540494
410-183955-10 MSD	DEP51-S10A-240813	Total/NA	Solid	6020B	540494
410-183955-10 DU	DEP51-S10A-240813	Total/NA	Solid	6020B	540494
410-183955-10 DU	DEP51-S10A-240813	Total/NA	Solid	6020B	540494

Analysis Batch: 541547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-3	DEP51-S3-240813	Total/NA	Solid	6020B	540494
410-183955-5	DEP51-S6-240813	Total/NA	Solid	6020B	540494
410-183955-9	DEP51-S8A-240813	Total/NA	Solid	6020B	540494

Analysis Batch: 542036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-1	DEP51-S12-240813	Total/NA	Solid	6020B	540014
410-183955-1	DEP51-S12-240813	Total/NA	Solid	6020B	540014
410-183955-2	DUP-SA-240813	Total/NA	Solid	6020B	540014
410-183955-2	DUP-SA-240813	Total/NA	Solid	6020B	540014
MB 410-540014/1-A ^2	Method Blank	Total/NA	Solid	6020B	540014
LCS 410-540014/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	540014

Analysis Batch: 542240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-2	DUP-SA-240813	Total/NA	Solid	6020B	540014

Analysis Batch: 543667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-13	DEP51-W5-240813	Dissolved	Water	6020B	540323
410-183955-13	DEP51-W5-240813	Dissolved	Water	6020B	540323

Metals (Continued)

Analysis Batch: 543667 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-14	DEP51-W6-240813	Dissolved	Water	6020B	540227
410-183955-14	DEP51-W6-240813	Dissolved	Water	6020B	540227
410-183955-14	DEP51-W6-240813	Dissolved	Water	6020B	540227
MB 410-540227/1-A	Method Blank	Total/NA	Water	6020B	540227
MB 410-540323/1-A	Method Blank	Total/NA	Water	6020B	540323
LCS 410-540227/2-A	Lab Control Sample	Total/NA	Water	6020B	540227
LCS 410-540323/2-A	Lab Control Sample	Total/NA	Water	6020B	540323

Analysis Batch: 543974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-13	DEP51-W5-240813	Dissolved	Water	6020B	540323
410-183955-14	DEP51-W6-240813	Dissolved	Water	6020B	540227
MB 410-540227/1-A	Method Blank	Total/NA	Water	6020B	540227
MB 410-540323/1-A	Method Blank	Total/NA	Water	6020B	540323

General Chemistry

Analysis Batch: 536826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-1	DEP51-S12-240813	Total/NA	Solid	7196A	
410-183955-2	DUP-SA-240813	Total/NA	Solid	7196A	
410-183955-3	DEP51-S3-240813	Total/NA	Solid	7196A	
410-183955-4	DEP51-S5-240813	Total/NA	Solid	7196A	
410-183955-5	DEP51-S6-240813	Total/NA	Solid	7196A	
410-183955-6	DUP-SB-240813	Total/NA	Solid	7196A	
410-183955-7	DEP51-S13-240813	Total/NA	Solid	7196A	
410-183955-8	DEP51-S7V	Total/NA	Solid	7196A	
410-183955-9	DEP51-S8A-240813	Total/NA	Solid	7196A	
410-183955-10	DEP51-S10A-240813	Total/NA	Solid	7196A	
410-183955-11	DEP51-S14-240813	Total/NA	Solid	7196A	
410-183955-12	DEP51-S15-240813	Total/NA	Solid	7196A	
410-183955-13	DEP51-W5-240813	Total/NA	Water	7196A	
410-183955-14	DEP51-W6-240813	Total/NA	Water	7196A	

Prep Batch: 539922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-1	DEP51-S12-240813	Total/NA	Solid	3060A	
410-183955-2	DUP-SA-240813	Total/NA	Solid	3060A	
410-183955-3	DEP51-S3-240813	Total/NA	Solid	3060A	
410-183955-4	DEP51-S5-240813	Total/NA	Solid	3060A	
410-183955-5	DEP51-S6-240813	Total/NA	Solid	3060A	
410-183955-6	DUP-SB-240813	Total/NA	Solid	3060A	
410-183955-7	DEP51-S13-240813	Total/NA	Solid	3060A	
410-183955-8	DEP51-S7V	Total/NA	Solid	3060A	
410-183955-9	DEP51-S8A-240813	Total/NA	Solid	3060A	
MB 410-539922/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 410-539922/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSI 410-539922/3-A	Lab Control Sample	Total/NA	Solid	3060A	
410-183955-7 MSI	DEP51-S13-240813	Total/NA	Solid	3060A	
410-183955-7 MSS	DEP51-S13-240813	Total/NA	Solid	3060A	
410-183955-7 DU	DEP51-S13-240813	Total/NA	Solid	3060A	

General Chemistry

Analysis Batch: 539954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-1	DEP51-S12-240813	Total/NA	Solid	Moisture	
410-183955-2	DUP-SA-240813	Total/NA	Solid	Moisture	
410-183955-3	DEP51-S3-240813	Total/NA	Solid	Moisture	
410-183955-4	DEP51-S5-240813	Total/NA	Solid	Moisture	
410-183955-5	DEP51-S6-240813	Total/NA	Solid	Moisture	
410-183955-6	DUP-SB-240813	Total/NA	Solid	Moisture	
410-183955-7	DEP51-S13-240813	Total/NA	Solid	Moisture	
410-183955-8	DEP51-S7V	Total/NA	Solid	Moisture	
410-183955-9	DEP51-S8A-240813	Total/NA	Solid	Moisture	
410-183955-10	DEP51-S10A-240813	Total/NA	Solid	Moisture	
410-183955-11	DEP51-S14-240813	Total/NA	Solid	Moisture	
410-183955-12	DEP51-S15-240813	Total/NA	Solid	Moisture	

Analysis Batch: 539978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-13	DEP51-W5-240813	Dissolved	Water	7196A	
410-183955-14	DEP51-W6-240813	Dissolved	Water	7196A	
MB 410-539978/3	Method Blank	Total/NA	Water	7196A	
LCS 410-539978/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 410-539978/5	Lab Control Sample Dup	Total/NA	Water	7196A	
410-183955-13 DU	DEP51-W5-240813	Dissolved	Water	7196A	

Analysis Batch: 540001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-1	DEP51-S12-240813	Total/NA	Solid	7196A	539922
410-183955-2	DUP-SA-240813	Total/NA	Solid	7196A	539922
410-183955-3	DEP51-S3-240813	Total/NA	Solid	7196A	539922
410-183955-4	DEP51-S5-240813	Total/NA	Solid	7196A	539922
410-183955-5	DEP51-S6-240813	Total/NA	Solid	7196A	539922
410-183955-6	DUP-SB-240813	Total/NA	Solid	7196A	539922
410-183955-7	DEP51-S13-240813	Total/NA	Solid	7196A	539922
410-183955-8	DEP51-S7V	Total/NA	Solid	7196A	539922
410-183955-9	DEP51-S8A-240813	Total/NA	Solid	7196A	539922
MB 410-539922/1-A	Method Blank	Total/NA	Solid	7196A	539922
LCS 410-539922/2-A	Lab Control Sample	Total/NA	Solid	7196A	539922
LCSI 410-539922/3-A	Lab Control Sample	Total/NA	Solid	7196A	539922
410-183955-7 MSI	DEP51-S13-240813	Total/NA	Solid	7196A	539922
410-183955-7 MSS	DEP51-S13-240813	Total/NA	Solid	7196A	539922
410-183955-7 DU	DEP51-S13-240813	Total/NA	Solid	7196A	539922

Prep Batch: 540481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-10	DEP51-S10A-240813	Total/NA	Solid	3060A	
410-183955-11	DEP51-S14-240813	Total/NA	Solid	3060A	
410-183955-12	DEP51-S15-240813	Total/NA	Solid	3060A	
MB 410-540481/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 410-540481/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSI 410-540481/3-A	Lab Control Sample	Total/NA	Solid	3060A	

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-183955-1

General Chemistry

Analysis Batch: 540529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-183955-10	DEP51-S10A-240813	Total/NA	Solid	7196A	540481
410-183955-11	DEP51-S14-240813	Total/NA	Solid	7196A	540481
410-183955-12	DEP51-S15-240813	Total/NA	Solid	7196A	540481
MB 410-540481/1-A	Method Blank	Total/NA	Solid	7196A	540481
LCS 410-540481/2-A	Lab Control Sample	Total/NA	Solid	7196A	540481
LCSI 410-540481/3-A	Lab Control Sample	Total/NA	Solid	7196A	540481

Client Sample ID: DEP51-S12-240813

Lab Sample ID: 410-183955-1

Date Collected: 08/13/24 10:51

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/14/24 09:06
Total/NA	Analysis	Moisture		1	539954	S9WT	ELLE	08/13/24 20:02

Client Sample ID: DEP51-S12-240813

Lab Sample ID: 410-183955-1

Date Collected: 08/13/24 10:51

Matrix: Solid

Date Received: 08/13/24 16:15

Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			540014	UAMX	ELLE	08/14/24 07:00
Total/NA	Analysis	6020B		2	542036	F7JF	ELLE	08/19/24 11:42
Total/NA	Prep	3050B			540014	UAMX	ELLE	08/14/24 07:00
Total/NA	Analysis	6020B		10	542036	F7JF	ELLE	08/19/24 11:44
Total/NA	Prep	7471B			540496	UAMX	ELLE	08/14/24 23:25
Total/NA	Analysis	7471B		1	541279	X3ZX	ELLE	08/16/24 09:50
Total/NA	Prep	3060A			539922	UDS7	ELLE	08/13/24 18:22
Total/NA	Analysis	7196A		20	540001	UDS7	ELLE	08/14/24 02:58

Client Sample ID: DUP-SA-240813

Lab Sample ID: 410-183955-2

Date Collected: 08/13/24 00:00

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/14/24 09:06
Total/NA	Analysis	Moisture		1	539954	S9WT	ELLE	08/13/24 20:02

Client Sample ID: DUP-SA-240813

Lab Sample ID: 410-183955-2

Date Collected: 08/13/24 00:00

Matrix: Solid

Date Received: 08/13/24 16:15

Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			540014	UAMX	ELLE	08/14/24 07:00
Total/NA	Analysis	6020B		2	542036	F7JF	ELLE	08/19/24 11:46
Total/NA	Prep	3050B			540014	UAMX	ELLE	08/14/24 07:00
Total/NA	Analysis	6020B		10	542036	F7JF	ELLE	08/19/24 11:48
Total/NA	Prep	3050B			540014	UAMX	ELLE	08/14/24 07:00
Total/NA	Analysis	6020B		100	542240	T8CQ	ELLE	08/19/24 15:25
Total/NA	Prep	7471B			540496	UAMX	ELLE	08/14/24 23:25
Total/NA	Analysis	7471B		1	541279	X3ZX	ELLE	08/16/24 09:51
Total/NA	Prep	3060A			539922	UDS7	ELLE	08/13/24 18:22
Total/NA	Analysis	7196A		10	540001	UDS7	ELLE	08/14/24 02:58

Client Sample ID: DEP51-S3-240813

Lab Sample ID: 410-183955-3

Date Collected: 08/13/24 10:55

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/14/24 09:06
Total/NA	Analysis	Moisture		1	539954	S9WT	ELLE	08/13/24 20:02

Client Sample ID: DEP51-S3-240813

Lab Sample ID: 410-183955-3

Date Collected: 08/13/24 10:55

Matrix: Solid

Date Received: 08/13/24 16:15

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		2	541432	F7JF	ELLE	08/16/24 14:03
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		10	541432	F7JF	ELLE	08/16/24 14:05
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		100	541547	T8CQ	ELLE	08/16/24 18:21
Total/NA	Prep	7471B			540496	UAMX	ELLE	08/14/24 23:25
Total/NA	Analysis	7471B		1	541279	X3ZX	ELLE	08/16/24 09:53
Total/NA	Prep	3060A			539922	UDS7	ELLE	08/13/24 18:22
Total/NA	Analysis	7196A		5	540001	UDS7	ELLE	08/14/24 02:58

Client Sample ID: DEP51-S5-240813

Lab Sample ID: 410-183955-4

Date Collected: 08/13/24 11:10

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/14/24 09:06
Total/NA	Analysis	Moisture		1	539954	S9WT	ELLE	08/13/24 20:02

Client Sample ID: DEP51-S5-240813

Lab Sample ID: 410-183955-4

Date Collected: 08/13/24 11:10

Matrix: Solid

Date Received: 08/13/24 16:15

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		2	541432	F7JF	ELLE	08/16/24 13:59
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		10	541432	F7JF	ELLE	08/16/24 14:01
Total/NA	Prep	7471B			540013	UAMX	ELLE	08/14/24 23:25
Total/NA	Analysis	7471B		1	541279	X3ZX	ELLE	08/16/24 07:22
Total/NA	Prep	3060A			539922	UDS7	ELLE	08/13/24 18:22
Total/NA	Analysis	7196A		5	540001	UDS7	ELLE	08/14/24 02:58

Client Sample ID: DEP51-S6-240813

Lab Sample ID: 410-183955-5

Date Collected: 08/13/24 11:20

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/14/24 09:06
Total/NA	Analysis	Moisture		1	539954	S9WT	ELLE	08/13/24 20:02

Client Sample ID: DEP51-S6-240813

Lab Sample ID: 410-183955-5

Date Collected: 08/13/24 11:20

Matrix: Solid

Date Received: 08/13/24 16:15

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		2	541432	F7JF	ELLE	08/16/24 13:55
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		10	541432	F7JF	ELLE	08/16/24 13:57
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		100	541547	T8CQ	ELLE	08/16/24 18:19
Total/NA	Prep	7471B			540013	UAMX	ELLE	08/14/24 23:25
Total/NA	Analysis	7471B		1	541279	X3ZX	ELLE	08/16/24 07:13
Total/NA	Prep	3060A			539922	UDS7	ELLE	08/13/24 18:22
Total/NA	Analysis	7196A		1	540001	UDS7	ELLE	08/14/24 02:58

Client Sample ID: DUP-SB-240813

Lab Sample ID: 410-183955-6

Date Collected: 08/13/24 00:00

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/14/24 09:06
Total/NA	Analysis	Moisture		1	539954	S9WT	ELLE	08/13/24 20:02

Client Sample ID: DUP-SB-240813

Lab Sample ID: 410-183955-6

Date Collected: 08/13/24 00:00

Matrix: Solid

Date Received: 08/13/24 16:15

Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		2	541432	F7JF	ELLE	08/16/24 13:51
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		10	541432	F7JF	ELLE	08/16/24 13:53
Total/NA	Prep	7471B			540013	UAMX	ELLE	08/14/24 23:25
Total/NA	Analysis	7471B		1	541279	X3ZX	ELLE	08/16/24 07:18
Total/NA	Prep	3060A			539922	UDS7	ELLE	08/13/24 18:22
Total/NA	Analysis	7196A		2	540001	UDS7	ELLE	08/14/24 02:58

Client Sample ID: DEP51-S13-240813

Lab Sample ID: 410-183955-7

Date Collected: 08/13/24 11:05

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/14/24 09:06
Total/NA	Analysis	Moisture		1	539954	S9WT	ELLE	08/13/24 20:02

Client Sample ID: DEP51-S13-240813

Lab Sample ID: 410-183955-7

Date Collected: 08/13/24 11:05

Matrix: Solid

Date Received: 08/13/24 16:15

Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		2	541432	F7JF	ELLE	08/16/24 14:27
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		10	541432	F7JF	ELLE	08/16/24 14:29
Total/NA	Prep	7471B			540013	UAMX	ELLE	08/14/24 23:25
Total/NA	Analysis	7471B		1	541279	X3ZX	ELLE	08/16/24 07:20
Total/NA	Prep	3060A			539922	UDS7	ELLE	08/13/24 18:22
Total/NA	Analysis	7196A		10	540001	UDS7	ELLE	08/14/24 02:58

Client Sample ID: DEP51-S7V

Lab Sample ID: 410-183955-8

Date Collected: 08/13/24 11:25

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/14/24 09:06
Total/NA	Analysis	Moisture		1	539954	S9WT	ELLE	08/13/24 20:02

Client Sample ID: DEP51-S7V

Lab Sample ID: 410-183955-8

Date Collected: 08/13/24 11:25

Matrix: Solid

Date Received: 08/13/24 16:15

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		2	541432	F7JF	ELLE	08/16/24 14:23
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		10	541432	F7JF	ELLE	08/16/24 14:25
Total/NA	Prep	7471B			540013	UAMX	ELLE	08/14/24 23:25
Total/NA	Analysis	7471B		1	541279	X3ZX	ELLE	08/16/24 07:14
Total/NA	Prep	3060A			539922	UDS7	ELLE	08/13/24 18:22
Total/NA	Analysis	7196A		10	540001	UDS7	ELLE	08/14/24 02:58

Client Sample ID: DEP51-S8A-240813

Lab Sample ID: 410-183955-9

Date Collected: 08/13/24 11:30

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/14/24 09:06

Client Sample ID: DEP51-S8A-240813

Lab Sample ID: 410-183955-9

Date Collected: 08/13/24 11:30

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	539954	S9WT	ELLE	08/13/24 20:02

Client Sample ID: DEP51-S8A-240813

Lab Sample ID: 410-183955-9

Date Collected: 08/13/24 11:30

Matrix: Solid

Date Received: 08/13/24 16:15

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		2	541432	F7JF	ELLE	08/16/24 14:19
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		10	541432	F7JF	ELLE	08/16/24 14:21
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		100	541547	T8CQ	ELLE	08/16/24 18:23
Total/NA	Prep	7471B			540013	UAMX	ELLE	08/14/24 23:25
Total/NA	Analysis	7471B		1	541279	X3ZX	ELLE	08/16/24 07:16
Total/NA	Prep	3060A			539922	UDS7	ELLE	08/13/24 18:22
Total/NA	Analysis	7196A		5	540001	UDS7	ELLE	08/14/24 02:58

Client Sample ID: DEP51-S10A-240813

Lab Sample ID: 410-183955-10

Date Collected: 08/13/24 11:35

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/14/24 09:06
Total/NA	Analysis	Moisture		1	539954	S9WT	ELLE	08/13/24 20:02

Client Sample ID: DEP51-S10A-240813

Lab Sample ID: 410-183955-10

Date Collected: 08/13/24 11:35

Matrix: Solid

Date Received: 08/13/24 16:15

Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		2	541432	F7JF	ELLE	08/16/24 12:18
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		10	541432	F7JF	ELLE	08/16/24 12:20
Total/NA	Prep	7471B			540013	UAMX	ELLE	08/14/24 23:25
Total/NA	Analysis	7471B		1	541279	X3ZX	ELLE	08/16/24 06:31
Total/NA	Prep	3060A			540481	UDS7	ELLE	08/14/24 20:09
Total/NA	Analysis	7196A		10	540529	UDS7	ELLE	08/15/24 00:33

Client Sample ID: DEP51-S14-240813

Lab Sample ID: 410-183955-11

Date Collected: 08/13/24 11:45

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/14/24 09:06
Total/NA	Analysis	Moisture		1	539954	S9WT	ELLE	08/13/24 20:02

Client Sample ID: DEP51-S14-240813

Lab Sample ID: 410-183955-11

Date Collected: 08/13/24 11:45

Matrix: Solid

Date Received: 08/13/24 16:15

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		2	541432	F7JF	ELLE	08/16/24 14:39
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		10	541432	F7JF	ELLE	08/16/24 14:41
Total/NA	Prep	7471B			540013	UAMX	ELLE	08/14/24 23:25
Total/NA	Analysis	7471B		1	541279	X3ZX	ELLE	08/16/24 07:05
Total/NA	Prep	3060A			540481	UDS7	ELLE	08/14/24 20:09
Total/NA	Analysis	7196A		10	540529	UDS7	ELLE	08/15/24 00:33

Client Sample ID: DEP51-S15-240813

Lab Sample ID: 410-183955-12

Date Collected: 08/13/24 11:55

Matrix: Solid

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/14/24 09:06
Total/NA	Analysis	Moisture		1	539954	S9WT	ELLE	08/13/24 20:02

Client Sample ID: DEP51-S15-240813

Lab Sample ID: 410-183955-12

Date Collected: 08/13/24 11:55

Matrix: Solid

Date Received: 08/13/24 16:15

Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			540494	UAMX	ELLE	08/14/24 21:30
Total/NA	Analysis	6020B		2	541432	F7JF	ELLE	08/16/24 14:15
Total/NA	Prep	7471B			540013	UAMX	ELLE	08/14/24 23:25
Total/NA	Analysis	7471B		1	541279	X3ZX	ELLE	08/16/24 07:07
Total/NA	Prep	3060A			540481	UDS7	ELLE	08/14/24 20:09
Total/NA	Analysis	7196A		10	540529	UDS7	ELLE	08/15/24 00:33

Client Sample ID: DEP51-W5-240813

Lab Sample ID: 410-183955-13

Date Collected: 08/13/24 12:30

Matrix: Water

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	Non-Digest Prep			540323	UJL8	ELLE	08/14/24 13:20
Dissolved	Analysis	6020B		1	540667	F7JF	ELLE	08/14/24 22:28

Client Sample ID: DEP51-W5-240813

Lab Sample ID: 410-183955-13

Date Collected: 08/13/24 12:30

Matrix: Water

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	Non-Digest Prep			540323	UJL8	ELLE	08/14/24 13:20
Dissolved	Analysis	6020B		1	543667	T8CQ	ELLE	08/22/24 18:51
Dissolved	Prep	Non-Digest Prep			540323	UJL8	ELLE	08/14/24 13:20
Dissolved	Analysis	6020B		100	543667	T8CQ	ELLE	08/22/24 19:54
Dissolved	Prep	Non-Digest Prep			540323	UJL8	ELLE	08/14/24 13:20
Dissolved	Analysis	6020B		1	543974	F7JF	ELLE	08/23/24 14:15
Dissolved	Prep	7470A			540540	UAMX	ELLE	08/15/24 05:14
Dissolved	Analysis	7470A		1	540904	X3ZX	ELLE	08/15/24 14:09
Dissolved	Analysis	7196A		100	539978	UDS7	ELLE	08/13/24 21:20
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/16/24 07:33

Client Sample ID: DEP51-W6-240813

Lab Sample ID: 410-183955-14

Date Collected: 08/13/24 12:55

Matrix: Water

Date Received: 08/13/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	Non-Digest Prep			540227	UJL8	ELLE	08/14/24 10:30
Dissolved	Analysis	6020B		1	540667	F7JF	ELLE	08/14/24 19:44
Dissolved	Prep	Non-Digest Prep			540227	UJL8	ELLE	08/14/24 10:30
Dissolved	Analysis	6020B		1	543667	T8CQ	ELLE	08/22/24 18:49
Dissolved	Prep	Non-Digest Prep			540227	UJL8	ELLE	08/14/24 10:30
Dissolved	Analysis	6020B		10	543667	T8CQ	ELLE	08/22/24 19:30
Dissolved	Prep	Non-Digest Prep			540227	UJL8	ELLE	08/14/24 10:30
Dissolved	Analysis	6020B		100	543667	T8CQ	ELLE	08/22/24 19:52
Dissolved	Prep	Non-Digest Prep			540227	UJL8	ELLE	08/14/24 10:30
Dissolved	Analysis	6020B		1	543974	F7JF	ELLE	08/23/24 14:13
Dissolved	Prep	7470A			540540	UAMX	ELLE	08/15/24 05:14
Dissolved	Analysis	7470A		1	540904	X3ZX	ELLE	08/15/24 14:11
Dissolved	Analysis	7196A		100	539978	UDS7	ELLE	08/13/24 21:20
Total/NA	Analysis	7196A		1	536826	MRD6	ELLE	08/16/24 07:33

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Pennsylvania Dept of Env Protection
Job ID: 410-183955-1
Project/Site: DEP 51st

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7196A		Solid	Cr (III)
7196A		Water	Cr (III)
Moisture		Solid	Percent Moisture

Method Summary

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-183955-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
7471B	Mercury (CVAA)	SW846	ELLE
7196A	Chromium, Hexavalent	SW846	ELLE
7196A	Chromium, Trivalent (Colorimetric)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE
7471B	Preparation, Mercury	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Pennsylvania Dept of Env Protection
Project/Site: DEP 51st

Job ID: 410-183955-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-183955-1	DEP51-S12-240813	Solid	08/13/24 10:51	08/13/24 16:15
410-183955-2	DUP-SA-240813	Solid	08/13/24 00:00	08/13/24 16:15
410-183955-3	DEP51-S3-240813	Solid	08/13/24 10:55	08/13/24 16:15
410-183955-4	DEP51-S5-240813	Solid	08/13/24 11:10	08/13/24 16:15
410-183955-5	DEP51-S6-240813	Solid	08/13/24 11:20	08/13/24 16:15
410-183955-6	DUP-SB-240813	Solid	08/13/24 00:00	08/13/24 16:15
410-183955-7	DEP51-S13-240813	Solid	08/13/24 11:05	08/13/24 16:15
410-183955-8	DEP51-S7V	Solid	08/13/24 11:25	08/13/24 16:15
410-183955-9	DEP51-S8A-240813	Solid	08/13/24 11:30	08/13/24 16:15
410-183955-10	DEP51-S10A-240813	Solid	08/13/24 11:35	08/13/24 16:15
410-183955-11	DEP51-S14-240813	Solid	08/13/24 11:45	08/13/24 16:15
410-183955-12	DEP51-S15-240813	Solid	08/13/24 11:55	08/13/24 16:15
410-183955-13	DEP51-W5-240813	Water	08/13/24 12:30	08/13/24 16:15
410-183955-14	DEP51-W6-240813	Water	08/13/24 12:55	08/13/24 16:15

410-183955 Chain of Custody

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Chain of Custody Record

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Client Contact: Glorinés Suárez Rivera	Sampler: Christine McCarthy	Lab PM: Sachtleben, Kerri S	Carrier Tracking No(s):	COC No: 410-128513-35441.1
Company: Pennsylvania Dept of Env Protection	Phone: 484-250-5725	E-Mail: Kerri.Sachtleben@et.eurofinsus.com	State of Origin: PA	Page: Page 1 of 2
Address: 2 East Main Street	PWSID:	Analysis Requested		Job #:
City: Norristown	Due Date Requested:			Preservation Codes: U=unpreserved
State, Zip: PA, 19401	TAT Requested (days): 3 DAY RUSH			
Phone: 484-250-5724(Tel)	Compliance Project: Δ Yes Δ No			
Email: gsuarezriv@pa.gov	PO #: 188260			
Project Name: DEP 51st	WO #:			
Site: Alliance 51st St | Bartram's Trail	Project #: 41020738			Other:
	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B Total Metals	7196A Hexavalent Chromium	7196A Trivalent Chromium Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:				U	U	U		
DEP51-S12-240813	8|13|24	1051	G	S			X	X	X	1	
DUP-SA-240813	8|13|24	—	G	S			X	X	X	1	
DEP51-S3-240813	8|13|24	1055	G	S			X	X	X	1	
DEP51-S5-240813	8|13|24	1110	G	S			X	X	X	1	
DEP51-S6-240813	8|13|24	1120	G	S			X	X	X	1	
DUP-SB-240813	8|13|24	—	G	S			X	X	X	1	
DEP51-S13-240813	8|13|24	1105	G	S			X	X	X	1	
DEP51-S7-240813	8|13|24	1125	G	S			X	X	X	1	
DEP51-S8A-240813	8|13|24	1130	G	S			X	X	X	1	
DEP51-S10A-240813	8|13|24	1135	G	S			X	X	X	1	
DEP51-S14-240813	8|13|24	1145	G	S			X	X	X	1	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Christine McCarthy	Date/Time: 8|13|24 1445	Company: PA DEP	Received by:
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Received by:	Date/Time:	Company	
Received by:	Date/Time:	Company	
Received by:	Date/Time: 8|13|24 1605	Company: TestAm	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 15.1 C 14.7

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

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Client Information	Sampler: Christine McCarthy	Lab PM: Sachtleben, Kerri S	Carrier Tracking No(s):	COC No: 410-128513-35441.2
Client Contact: Glorinés Suárez Rivera	Phone: 484-250-5725	E-Mail: Kerri.Sachtleben@et.eurofinsus.com	State of Origin: PA	Page: Page 2 of 2
Company: Pennsylvania Dept of Env Protection	PWSID:			Job #:
Address: 2 East Main Street	Due Date Requested:			
City: Norristown	TAT Requested (days): 3 DAY RUSH			
State, Zip: PA, 19401	Compliance Project: Δ Yes Δ No			
Phone: 484-250-5724(Tel)	PO #: 188260			
Email: gsuarezriv@pa.gov	WO #:			
Project Name: DEP 51st	Project #: 41020738			
Site: Alliance 51st St/ Bartram's Trail	SSOW#:			

Analysis Requested

Preservation Codes:
U = Unpreserved
N = Nitric acid

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B Total Metals	7196A Hexavalent Chromium	7196A Trivalent Chromium Calc	6020B Dissolved Metals	7196A Hexavalent Chromium	7196A Trivalent Chromium Calc	Total Number of containers	Special Instructions/Note:
Preservation Code:							U	U	U	N	U	U		
DEP51 - S15 - 240813	8/13/24	1155	G	S			X	X	X				1	
DEP51 - WS - 240813	8/13/24	1230	G	W	X					X	X	X	2	Field Filtered
DEP51 - WL - 240813	8/13/24	1255	G	W	X					X	X	X	2	Field Filtered

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Christine McCarthy	8/13/24 1445	PADEP			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/13/24 1615	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: R 5.1 C 14.7

Ver: 04/02/2024

8/23/2024

Login Sample Receipt Checklist

Client: Pennsylvania Dept of Env Protection

Job Number: 410-183955-1

Login Number: 183955

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Kanagy, Nicholas

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	False	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

2024.10.24 DEP Soil Sample Results - Bartram's Mile Trail, Philadelphia, PA			Result in mg/kg								
Analyte	CAS	DEP Act 2 Residential MSC (mg/kg)	DEP51-S3	DEP51-S5	DEP51-S6	DEP51-S8A	DEP51-S16	DEP51-S21	DUP (S21)	DEP51-S24	DEP51-S25
Metals	Mercury	7439-97-6	**10**	0.059	0.05	9	0.058	0.093	0.075	0.051	0.095	0.34
	Cr (III)	16065-83-1	**190000**	930	450	220	330	110	1000	1000	670	41
	Cr (VI)	18540-29-9	**37**	21	32	6.5	8.2	0.88	22	14	5.6	ND
	Aluminum	7429-90-5	**190000**	13000	13000	4900	8600	10000	13000	14000	17000	14000
	Antimony	7440-36-0	**27**	0.83	1.3	3.9	1.1	1.2	0.8	0.74	0.92	1.5
	Arsenic	7440-38-2	**12**	9.2	6.9	10	6.2	7.5	9.1	8.7	7.6	9.5
	Barium	7440-39-3	**8200**	120	130	52	78	110	130	120	150	540
	Beryllium	7440-41-7	**320**	0.69	0.55	0.38	0.49	0.48	0.64	0.6	0.83	0.6
	Cadmium	7440-43-9	**38**	0.38	0.33	0.27	0.28	0.37	0.44	0.4	0.51	2.4
	Calcium	7440-70-2	**NS**	34000	19000	14000	11000	13000	32000	31000	21000	28000
	Chromium	7440-47-3	**NS**	950	480	230	330	110	1000	1000	670	41
	Cobalt	7440-48-4	**45**	13	12	9.3	9.4	7.7	15	16	17	8.3
	Copper	7440-50-8	**7200**	37	42	200	84	43	40	40	49	28
	Iron	7439-89-6	**150000**	24000	30000	71000	34000	18000	30000	27000	30000	22000
	Lead	7439-92-1	**450**	88	**490**	290	320	140	84	83	290	**1300**
	Magnesium	7439-95-4	**NS**	9200	7300	6200	4400	7100	6900	7500	7900	6400
	Manganese	7439-96-5	**2000**	870	480	460	480	280	440	460	720	350
	Nickel	7440-02-0	**650**	49	38	25	27	18	58	58	50	16
	Potassium	7440-09-7	**NS**	4000	4800	1500	2400	3400	4400	5100	4600	4000
	Selenium	7782-49-2	**26**	0.26	0.17	0.15	0.26	0.32	0.26	0.23	0.45	0.34
	Silver	7440-22-4	**84**	0.11	0.08	0.055	0.082	0.12	0.1	0.083	0.18	0.2
	Sodium	7440-23-5	**NS**	140	330	97	190	320	130	130	160	130
	Thallium	7440-28-0	**2.2**	0.25	0.29	ND	0.15	0.2	0.26	0.3	0.28	0.21
	Vanadium	7440-62-2	**1100**	49	37	26	42	28	62	52	47	34
	Zinc	7440-66-6	**12000**	290	360	270	170	170	320	350	300	860

KEY	
1 mg/kg = 1 ppm	
Medium Specific Concentration	MSC
No Standard	NS
Exceeds Published Act 2 Residential MSC	
Act 2 Residential MSC uses Direct Contact or Soil to Groundwater Standard published at the time of sampling, whichever is more stringent.	

KEY	
Not Detected above the Laboratory Minimum Detection Limit (MDL)	ND
All detections above the MDL are shown. MDL does not exceed the MSC unless indicated.	
(<value) indicates sample was not detected above the MDL, but the MDL exceeds the MSC.	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Glorinés Suárez Rivera
Pennsylvania Dept of Env Protection
2 East Main Street
Norristown, Pennsylvania 19401

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JOB DESCRIPTION

PA DEP 51st

JOB NUMBER

410-193795-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by
Kerri Sachtleben, Client Services Group Leader
Kerri.Sachtleben@et.eurofinsus.com
(717)556-7376

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Definitions/Glossary

Client: Pennsylvania Dept of Env Protection
Job ID: 410-193795-1
Project/Site: PA DEP 51st

Qualifiers

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
!	Laboratory is not accredited for this parameter.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-193795-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/24/2024 5:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample Preservation. This does not meet regulatory requirements.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 7196A: The following sample was diluted due to the nature of the sample matrix: DEP-51-S16-241024 (410-193795-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Pennsylvania Dept of Env Protection
Project/Site: PA DEP 51st

Job ID: 410-193795-1

Client Sample ID: DEP-51-S3-241024 — Lab Sample ID: 410-193795-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	13000		20	10	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.83		0.20	0.082	mg/Kg	2	☼	6020B	Total/NA
Arsenic	9.2		0.41	0.14	mg/Kg	2	☼	6020B	Total/NA
Barium	120		0.41	0.19	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.69		0.10	0.024	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.38		0.10	0.041	mg/Kg	2	☼	6020B	Total/NA
Calcium	34000		200	100	mg/Kg	10	☼	6020B	Total/NA
Chromium	950		20	9.7	mg/Kg	100	☼	6020B	Total/NA
Cobalt	13		0.20	0.082	mg/Kg	2	☼	6020B	Total/NA
Copper	37		0.41	0.18	mg/Kg	2	☼	6020B	Total/NA
Iron	24000		100	47	mg/Kg	10	☼	6020B	Total/NA
Lead	88		0.20	0.077	mg/Kg	2	☼	6020B	Total/NA
Magnesium	9200		10	5.0	mg/Kg	2	☼	6020B	Total/NA
Manganese	870		0.41	0.20	mg/Kg	2	☼	6020B	Total/NA
Nickel	49		0.41	0.19	mg/Kg	2	☼	6020B	Total/NA
Potassium	4000		41	16	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.26	J	0.41	0.10	mg/Kg	2	☼	6020B	Total/NA
Silver	0.11		0.10	0.041	mg/Kg	2	☼	6020B	Total/NA
Sodium	140		51	24	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.25		0.10	0.040	mg/Kg	2	☼	6020B	Total/NA
Vanadium	49		0.82	0.20	mg/Kg	2	☼	6020B	Total/NA
Zinc	290		150	20	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.059		0.059	0.020	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	21		0.45	0.15	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	930	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP-51-S16-241024 — Lab Sample ID: 410-193795-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	10000		20	10	mg/Kg	2	☼	6020B	Total/NA
Antimony	1.2		0.20	0.082	mg/Kg	2	☼	6020B	Total/NA
Arsenic	7.5		0.41	0.14	mg/Kg	2	☼	6020B	Total/NA
Barium	110		0.41	0.19	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.48		0.10	0.024	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.37		0.10	0.041	mg/Kg	2	☼	6020B	Total/NA
Calcium	13000		41	20	mg/Kg	2	☼	6020B	Total/NA
Chromium	110		0.41	0.19	mg/Kg	2	☼	6020B	Total/NA
Cobalt	7.7	^2	0.20	0.082	mg/Kg	2	☼	6020B	Total/NA
Copper	43		0.41	0.18	mg/Kg	2	☼	6020B	Total/NA
Iron	18000		20	9.4	mg/Kg	2	☼	6020B	Total/NA
Lead	140		0.20	0.078	mg/Kg	2	☼	6020B	Total/NA
Magnesium	7100		10	5.0	mg/Kg	2	☼	6020B	Total/NA
Manganese	280		0.41	0.20	mg/Kg	2	☼	6020B	Total/NA
Nickel	18		0.41	0.19	mg/Kg	2	☼	6020B	Total/NA
Potassium	3400		41	16	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.32	J	0.41	0.10	mg/Kg	2	☼	6020B	Total/NA
Silver	0.12		0.10	0.042	mg/Kg	2	☼	6020B	Total/NA
Sodium	320		51	25	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.20		0.10	0.040	mg/Kg	2	☼	6020B	Total/NA
Vanadium	28		0.82	0.20	mg/Kg	2	☼	6020B	Total/NA
Zinc	170		31	4.1	mg/Kg	2	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP-51-S16-241024 (Continued)

Lab Sample ID: 410-193795-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.093		0.061	0.020	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	0.88	J cn	2.1	0.71	mg/Kg	5	☼	7196A	Total/NA
Cr (III)	110	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP-51-S24-241024

Lab Sample ID: 410-193795-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	17000		19	9.4	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.92		0.19	0.076	mg/Kg	2	☼	6020B	Total/NA
Arsenic	7.6		0.38	0.13	mg/Kg	2	☼	6020B	Total/NA
Barium	150		0.38	0.17	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.83		0.094	0.022	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.51		0.094	0.038	mg/Kg	2	☼	6020B	Total/NA
Calcium	21000		190	93	mg/Kg	10	☼	6020B	Total/NA
Chromium	670		1.9	0.90	mg/Kg	10	☼	6020B	Total/NA
Cobalt	17		0.19	0.076	mg/Kg	2	☼	6020B	Total/NA
Copper	49		0.38	0.17	mg/Kg	2	☼	6020B	Total/NA
Iron	30000		94	44	mg/Kg	10	☼	6020B	Total/NA
Lead	290		0.94	0.36	mg/Kg	10	☼	6020B	Total/NA
Magnesium	7900		9.4	4.6	mg/Kg	2	☼	6020B	Total/NA
Manganese	720		0.38	0.19	mg/Kg	2	☼	6020B	Total/NA
Nickel	50		0.38	0.18	mg/Kg	2	☼	6020B	Total/NA
Potassium	4600		38	15	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.45		0.38	0.094	mg/Kg	2	☼	6020B	Total/NA
Silver	0.18		0.094	0.038	mg/Kg	2	☼	6020B	Total/NA
Sodium	160		47	23	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.28		0.094	0.037	mg/Kg	2	☼	6020B	Total/NA
Vanadium	47		0.76	0.19	mg/Kg	2	☼	6020B	Total/NA
Zinc	300		140	19	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.095		0.058	0.019	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	5.6		0.42	0.14	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	670	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP-51-S25-241024

Lab Sample ID: 410-193795-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	14000		17	8.2	mg/Kg	2	☼	6020B	Total/NA
Antimony	1.5		0.17	0.066	mg/Kg	2	☼	6020B	Total/NA
Arsenic	9.5		0.33	0.11	mg/Kg	2	☼	6020B	Total/NA
Barium	540		1.7	0.76	mg/Kg	10	☼	6020B	Total/NA
Beryllium	0.60		0.083	0.020	mg/Kg	2	☼	6020B	Total/NA
Cadmium	2.4		0.083	0.033	mg/Kg	2	☼	6020B	Total/NA
Calcium	28000		170	81	mg/Kg	10	☼	6020B	Total/NA
Chromium	41		0.33	0.16	mg/Kg	2	☼	6020B	Total/NA
Cobalt	8.3		0.17	0.066	mg/Kg	2	☼	6020B	Total/NA
Copper	28		0.33	0.15	mg/Kg	2	☼	6020B	Total/NA
Iron	22000		83	38	mg/Kg	10	☼	6020B	Total/NA
Lead	1300		8.3	3.2	mg/Kg	100	☼	6020B	Total/NA
Magnesium	6400		8.3	4.1	mg/Kg	2	☼	6020B	Total/NA
Manganese	350		0.33	0.17	mg/Kg	2	☼	6020B	Total/NA
Nickel	16		0.33	0.16	mg/Kg	2	☼	6020B	Total/NA
Potassium	4000		33	13	mg/Kg	2	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP-51-S25-241024 (Continued)

Lab Sample ID: 410-193795-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.34		0.33	0.083	mg/Kg	2	☼	6020B	Total/NA
Silver	0.20		0.083	0.034	mg/Kg	2	☼	6020B	Total/NA
Sodium	130		41	20	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.21		0.083	0.033	mg/Kg	2	☼	6020B	Total/NA
Vanadium	34		0.66	0.17	mg/Kg	2	☼	6020B	Total/NA
Zinc	860	J	1200	170	mg/Kg	100	☼	6020B	Total/NA
Mercury	0.34		0.056	0.019	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	41	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP-51-S21-241024

Lab Sample ID: 410-193795-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	13000		20	10	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.80		0.20	0.081	mg/Kg	2	☼	6020B	Total/NA
Arsenic	9.1		0.40	0.13	mg/Kg	2	☼	6020B	Total/NA
Barium	130		0.40	0.18	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.64		0.10	0.024	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.44		0.10	0.040	mg/Kg	2	☼	6020B	Total/NA
Calcium	32000		200	99	mg/Kg	10	☼	6020B	Total/NA
Chromium	1000		20	9.6	mg/Kg	100	☼	6020B	Total/NA
Cobalt	15		0.20	0.081	mg/Kg	2	☼	6020B	Total/NA
Copper	40		0.40	0.18	mg/Kg	2	☼	6020B	Total/NA
Iron	30000		100	46	mg/Kg	10	☼	6020B	Total/NA
Lead	84		0.20	0.077	mg/Kg	2	☼	6020B	Total/NA
Magnesium	6900		10	4.9	mg/Kg	2	☼	6020B	Total/NA
Manganese	440		0.40	0.20	mg/Kg	2	☼	6020B	Total/NA
Nickel	58		0.40	0.19	mg/Kg	2	☼	6020B	Total/NA
Potassium	4400		40	16	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.26	J	0.40	0.10	mg/Kg	2	☼	6020B	Total/NA
Silver	0.10		0.10	0.041	mg/Kg	2	☼	6020B	Total/NA
Sodium	130		50	24	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.26		0.10	0.039	mg/Kg	2	☼	6020B	Total/NA
Vanadium	62		0.81	0.20	mg/Kg	2	☼	6020B	Total/NA
Zinc	320		150	20	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.075		0.058	0.019	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	22		0.43	0.14	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	1000	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP-51-S-DUP-241024

Lab Sample ID: 410-193795-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	14000		20	9.7	mg/Kg	2	☼	6020B	Total/NA
Antimony	0.74		0.20	0.078	mg/Kg	2	☼	6020B	Total/NA
Arsenic	8.7		0.39	0.13	mg/Kg	2	☼	6020B	Total/NA
Barium	120		0.39	0.18	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.60		0.098	0.023	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.40		0.098	0.039	mg/Kg	2	☼	6020B	Total/NA
Calcium	31000		200	96	mg/Kg	10	☼	6020B	Total/NA
Chromium	1000		20	9.3	mg/Kg	100	☼	6020B	Total/NA
Cobalt	16		0.20	0.078	mg/Kg	2	☼	6020B	Total/NA
Copper	40		0.39	0.18	mg/Kg	2	☼	6020B	Total/NA
Iron	27000		98	45	mg/Kg	10	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP-51-S-DUP-241024 (Continued)

Lab Sample ID: 410-193795-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	83		0.20	0.074	mg/Kg	2	☼	6020B	Total/NA
Magnesium	7500		9.8	4.8	mg/Kg	2	☼	6020B	Total/NA
Manganese	460		0.39	0.20	mg/Kg	2	☼	6020B	Total/NA
Nickel	58		0.39	0.19	mg/Kg	2	☼	6020B	Total/NA
Potassium	5100		39	16	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.23	J	0.39	0.098	mg/Kg	2	☼	6020B	Total/NA
Silver	0.083	J	0.098	0.040	mg/Kg	2	☼	6020B	Total/NA
Sodium	130		49	23	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.30		0.098	0.038	mg/Kg	2	☼	6020B	Total/NA
Vanadium	52		0.78	0.20	mg/Kg	2	☼	6020B	Total/NA
Zinc	350		150	20	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.051	J	0.060	0.020	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	14		0.42	0.14	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	1000	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP-51-S5-241024

Lab Sample ID: 410-193795-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	13000		24	12	mg/Kg	2	☼	6020B	Total/NA
Antimony	1.3		0.24	0.095	mg/Kg	2	☼	6020B	Total/NA
Arsenic	6.9		0.48	0.16	mg/Kg	2	☼	6020B	Total/NA
Barium	130		0.48	0.22	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.55		0.12	0.028	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.33		0.12	0.048	mg/Kg	2	☼	6020B	Total/NA
Calcium	19000		48	23	mg/Kg	2	☼	6020B	Total/NA
Chromium	480		2.4	1.1	mg/Kg	10	☼	6020B	Total/NA
Cobalt	12	^2	0.24	0.095	mg/Kg	2	☼	6020B	Total/NA
Copper	42		0.48	0.21	mg/Kg	2	☼	6020B	Total/NA
Iron	30000		120	55	mg/Kg	10	☼	6020B	Total/NA
Lead	490		1.2	0.45	mg/Kg	10	☼	6020B	Total/NA
Magnesium	7300		12	5.8	mg/Kg	2	☼	6020B	Total/NA
Manganese	480		0.48	0.24	mg/Kg	2	☼	6020B	Total/NA
Nickel	38		0.48	0.23	mg/Kg	2	☼	6020B	Total/NA
Potassium	4800		48	19	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.17	J	0.48	0.12	mg/Kg	2	☼	6020B	Total/NA
Silver	0.080	J	0.12	0.048	mg/Kg	2	☼	6020B	Total/NA
Sodium	330		60	29	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.29		0.12	0.047	mg/Kg	2	☼	6020B	Total/NA
Vanadium	37		0.95	0.24	mg/Kg	2	☼	6020B	Total/NA
Zinc	360		180	24	mg/Kg	10	☼	6020B	Total/NA
Mercury	0.050	J	0.068	0.023	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	32		0.51	0.17	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	450	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP-51-S6-241024

Lab Sample ID: 410-193795-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4900		20	10	mg/Kg	2	☼	6020B	Total/NA
Antimony	3.9		0.20	0.081	mg/Kg	2	☼	6020B	Total/NA
Arsenic	10		0.40	0.14	mg/Kg	2	☼	6020B	Total/NA
Barium	52		0.40	0.18	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.38		0.10	0.024	mg/Kg	2	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP-51-S6-241024 (Continued)

Lab Sample ID: 410-193795-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.27		0.10	0.040	mg/Kg	2	☼	6020B	Total/NA
Calcium	14000		40	20	mg/Kg	2	☼	6020B	Total/NA
Chromium	230		2.0	0.96	mg/Kg	10	☼	6020B	Total/NA
Cobalt	9.3	^2	0.20	0.081	mg/Kg	2	☼	6020B	Total/NA
Copper	200		2.0	0.91	mg/Kg	10	☼	6020B	Total/NA
Iron	71000		100	47	mg/Kg	10	☼	6020B	Total/NA
Lead	290		1.0	0.38	mg/Kg	10	☼	6020B	Total/NA
Magnesium	6200		10	5.0	mg/Kg	2	☼	6020B	Total/NA
Manganese	460		0.40	0.20	mg/Kg	2	☼	6020B	Total/NA
Nickel	25		0.40	0.19	mg/Kg	2	☼	6020B	Total/NA
Potassium	1500		40	16	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.15	J	0.40	0.10	mg/Kg	2	☼	6020B	Total/NA
Silver	0.055	J	0.10	0.041	mg/Kg	2	☼	6020B	Total/NA
Sodium	97		51	24	mg/Kg	2	☼	6020B	Total/NA
Vanadium	26		0.81	0.20	mg/Kg	2	☼	6020B	Total/NA
Zinc	270		150	20	mg/Kg	10	☼	6020B	Total/NA
Mercury	9.0		1.3	0.45	mg/Kg	20	☼	7471B	Total/NA
Cr (VI)	6.5		0.46	0.15	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	220	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: DEP-51-S8A-241024

Lab Sample ID: 410-193795-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8600		22	11	mg/Kg	2	☼	6020B	Total/NA
Antimony	1.1		0.22	0.089	mg/Kg	2	☼	6020B	Total/NA
Arsenic	6.2		0.44	0.15	mg/Kg	2	☼	6020B	Total/NA
Barium	78		0.44	0.20	mg/Kg	2	☼	6020B	Total/NA
Beryllium	0.49		0.11	0.026	mg/Kg	2	☼	6020B	Total/NA
Cadmium	0.28		0.11	0.044	mg/Kg	2	☼	6020B	Total/NA
Calcium	11000		44	22	mg/Kg	2	☼	6020B	Total/NA
Chromium	330		2.2	1.1	mg/Kg	10	☼	6020B	Total/NA
Cobalt	9.4		0.22	0.089	mg/Kg	2	☼	6020B	Total/NA
Copper	84		0.44	0.20	mg/Kg	2	☼	6020B	Total/NA
Iron	34000		110	51	mg/Kg	10	☼	6020B	Total/NA
Lead	320		1.1	0.42	mg/Kg	10	☼	6020B	Total/NA
Magnesium	4400		11	5.4	mg/Kg	2	☼	6020B	Total/NA
Manganese	480		0.44	0.22	mg/Kg	2	☼	6020B	Total/NA
Nickel	27		0.44	0.21	mg/Kg	2	☼	6020B	Total/NA
Potassium	2400		44	18	mg/Kg	2	☼	6020B	Total/NA
Selenium	0.26	J	0.44	0.11	mg/Kg	2	☼	6020B	Total/NA
Silver	0.082	J	0.11	0.045	mg/Kg	2	☼	6020B	Total/NA
Sodium	190		55	27	mg/Kg	2	☼	6020B	Total/NA
Thallium	0.15		0.11	0.043	mg/Kg	2	☼	6020B	Total/NA
Vanadium	42		0.89	0.22	mg/Kg	2	☼	6020B	Total/NA
Zinc	170		33	4.4	mg/Kg	2	☼	6020B	Total/NA
Mercury	0.058	J	0.078	0.026	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	8.2		0.53	0.18	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	330	!	0.011	0.0035	mg/Kg	1	☼	7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DEP-51-S3-241024

Lab Sample ID: 410-193795-1

Date Collected: 10/24/24 10:22
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 94.3

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		20	10	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Antimony	0.83		0.20	0.082	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Arsenic	9.2		0.41	0.14	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Barium	120		0.41	0.19	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Beryllium	0.69		0.10	0.024	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Cadmium	0.38		0.10	0.041	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Calcium	34000		200	100	mg/Kg	☼	10/28/24 22:00	10/31/24 08:19	10
Chromium	950		20	9.7	mg/Kg	☼	10/28/24 22:00	10/31/24 17:05	100
Cobalt	13		0.20	0.082	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Copper	37		0.41	0.18	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Iron	24000		100	47	mg/Kg	☼	10/28/24 22:00	10/31/24 08:19	10
Lead	88		0.20	0.077	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Magnesium	9200		10	5.0	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Manganese	870		0.41	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Nickel	49		0.41	0.19	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Potassium	4000		41	16	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Selenium	0.26	J	0.41	0.10	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Silver	0.11		0.10	0.041	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Sodium	140		51	24	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Thallium	0.25		0.10	0.040	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Vanadium	49		0.82	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 08:17	2
Zinc	290		150	20	mg/Kg	☼	10/28/24 22:00	10/31/24 08:19	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.059	0.020	mg/Kg	☼	10/28/24 23:00	11/01/24 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	21		0.45	0.15	mg/Kg	☼	10/29/24 09:48	10/30/24 21:34	1
Cr (III) (SW846 7196A)	930	!	0.011	0.0035	mg/Kg	☼		10/25/24 10:44	1
Percent Moisture (EPA Moisture)	5.7	!	1.0	1.0	%			10/25/24 07:02	1

Client Sample ID: DEP-51-S16-241024

Lab Sample ID: 410-193795-2

Date Collected: 10/24/24 10:27
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 95.7

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		20	10	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Antimony	1.2		0.20	0.082	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Arsenic	7.5		0.41	0.14	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Barium	110		0.41	0.19	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Beryllium	0.48		0.10	0.024	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Cadmium	0.37		0.10	0.041	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Calcium	13000		41	20	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Chromium	110		0.41	0.19	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Cobalt	7.7	^2	0.20	0.082	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Copper	43		0.41	0.18	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Iron	18000		20	9.4	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2

Client Sample ID: DEP-51-S16-241024

Lab Sample ID: 410-193795-2

Date Collected: 10/24/24 10:27
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 95.7

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	140		0.20	0.078	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Magnesium	7100		10	5.0	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Manganese	280		0.41	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Nickel	18		0.41	0.19	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Potassium	3400		41	16	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Selenium	0.32	J	0.41	0.10	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Silver	0.12		0.10	0.042	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Sodium	320		51	25	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Thallium	0.20		0.10	0.040	mg/Kg	☼	10/28/24 22:00	10/31/24 16:57	2
Vanadium	28		0.82	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2
Zinc	170		31	4.1	mg/Kg	☼	10/28/24 22:00	10/31/24 07:47	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.093		0.061	0.020	mg/Kg	☼	10/28/24 23:00	11/01/24 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	0.88	J cn	2.1	0.71	mg/Kg	☼	10/29/24 09:48	10/30/24 21:34	5
Cr (III) (SW846 7196A)	110	!	0.011	0.0035	mg/Kg	☼		10/25/24 10:44	1
Percent Moisture (EPA Moisture)	4.3	!	1.0	1.0	%			10/25/24 07:02	1

Client Sample ID: DEP-51-S24-241024

Lab Sample ID: 410-193795-3

Date Collected: 10/24/24 10:30
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 98.0

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17000		19	9.4	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Antimony	0.92		0.19	0.076	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Arsenic	7.6		0.38	0.13	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Barium	150		0.38	0.17	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Beryllium	0.83		0.094	0.022	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Cadmium	0.51		0.094	0.038	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Calcium	21000		190	93	mg/Kg	☼	10/28/24 22:00	10/31/24 08:11	10
Chromium	670		1.9	0.90	mg/Kg	☼	10/28/24 22:00	10/31/24 08:11	10
Cobalt	17		0.19	0.076	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Copper	49		0.38	0.17	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Iron	30000		94	44	mg/Kg	☼	10/28/24 22:00	10/31/24 08:11	10
Lead	290		0.94	0.36	mg/Kg	☼	10/28/24 22:00	10/31/24 08:11	10
Magnesium	7900		9.4	4.6	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Manganese	720		0.38	0.19	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Nickel	50		0.38	0.18	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Potassium	4600		38	15	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Selenium	0.45		0.38	0.094	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Silver	0.18		0.094	0.038	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Sodium	160		47	23	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Thallium	0.28		0.094	0.037	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Vanadium	47		0.76	0.19	mg/Kg	☼	10/28/24 22:00	10/31/24 08:09	2
Zinc	300		140	19	mg/Kg	☼	10/28/24 22:00	10/31/24 08:11	10

Client Sample ID: DEP-51-S24-241024

Lab Sample ID: 410-193795-3

Date Collected: 10/24/24 10:30
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 98.0

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.095		0.058	0.019	mg/Kg	☼	10/28/24 23:00	11/01/24 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	5.6		0.42	0.14	mg/Kg	☼	10/29/24 09:48	10/30/24 21:34	1
Cr (III) (SW846 7196A)	670	!	0.011	0.0035	mg/Kg	☼		10/25/24 10:44	1
Percent Moisture (EPA Moisture)	2.0	!	1.0	1.0	%			10/25/24 07:02	1

Client Sample ID: DEP-51-S25-241024

Lab Sample ID: 410-193795-4

Date Collected: 10/24/24 10:33
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 98.8

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		17	8.2	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Antimony	1.5		0.17	0.066	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Arsenic	9.5		0.33	0.11	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Barium	540		1.7	0.76	mg/Kg	☼	10/28/24 22:00	10/31/24 08:07	10
Beryllium	0.60		0.083	0.020	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Cadmium	2.4		0.083	0.033	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Calcium	28000		170	81	mg/Kg	☼	10/28/24 22:00	10/31/24 08:07	10
Chromium	41		0.33	0.16	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Cobalt	8.3		0.17	0.066	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Copper	28		0.33	0.15	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Iron	22000		83	38	mg/Kg	☼	10/28/24 22:00	10/31/24 08:07	10
Lead	1300		8.3	3.2	mg/Kg	☼	10/28/24 22:00	10/31/24 17:01	100
Magnesium	6400		8.3	4.1	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Manganese	350		0.33	0.17	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Nickel	16		0.33	0.16	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Potassium	4000		33	13	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Selenium	0.34		0.33	0.083	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Silver	0.20		0.083	0.034	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Sodium	130		41	20	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Thallium	0.21		0.083	0.033	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Vanadium	34		0.66	0.17	mg/Kg	☼	10/28/24 22:00	10/31/24 08:05	2
Zinc	860	J	1200	170	mg/Kg	☼	10/28/24 22:00	10/31/24 17:01	100

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.34		0.056	0.019	mg/Kg	☼	10/28/24 23:00	11/01/24 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.42	0.14	mg/Kg	☼	10/29/24 09:48	10/30/24 21:34	1
Cr (III) (SW846 7196A)	41	!	0.011	0.0035	mg/Kg	☼		10/25/24 10:44	1
Percent Moisture (EPA Moisture)	1.2	!	1.0	1.0	%			10/25/24 07:02	1

Client Sample ID: DEP-51-S21-241024

Lab Sample ID: 410-193795-5

Date Collected: 10/24/24 10:36
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 98.3

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		20	10	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Antimony	0.80		0.20	0.081	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Arsenic	9.1		0.40	0.13	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Barium	130		0.40	0.18	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Beryllium	0.64		0.10	0.024	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Cadmium	0.44		0.10	0.040	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Calcium	32000		200	99	mg/Kg	☼	10/28/24 22:00	10/31/24 08:15	10
Chromium	1000		20	9.6	mg/Kg	☼	10/28/24 22:00	10/31/24 17:03	100
Cobalt	15		0.20	0.081	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Copper	40		0.40	0.18	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Iron	30000		100	46	mg/Kg	☼	10/28/24 22:00	10/31/24 08:15	10
Lead	84		0.20	0.077	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Magnesium	6900		10	4.9	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Manganese	440		0.40	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Nickel	58		0.40	0.19	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Potassium	4400		40	16	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Selenium	0.26	J	0.40	0.10	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Silver	0.10		0.10	0.041	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Sodium	130		50	24	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Thallium	0.26		0.10	0.039	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Vanadium	62		0.81	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 08:13	2
Zinc	320		150	20	mg/Kg	☼	10/28/24 22:00	10/31/24 08:15	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075		0.058	0.019	mg/Kg	☼	10/28/24 23:00	11/01/24 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	22		0.43	0.14	mg/Kg	☼	10/29/24 09:48	10/30/24 21:34	1
Cr (III) (SW846 7196A)	1000	!	0.011	0.0035	mg/Kg	☼		10/25/24 10:44	1
Percent Moisture (EPA Moisture)	1.7	!	1.0	1.0	%			10/25/24 07:02	1

Client Sample ID: DEP-51-S-DUP-241024

Lab Sample ID: 410-193795-6

Date Collected: 10/24/24 00:00
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 98.5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000		20	9.7	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Antimony	0.74		0.20	0.078	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Arsenic	8.7		0.39	0.13	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Barium	120		0.39	0.18	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Beryllium	0.60		0.098	0.023	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Cadmium	0.40		0.098	0.039	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Calcium	31000		200	96	mg/Kg	☼	10/28/24 22:00	10/31/24 08:29	10
Chromium	1000		20	9.3	mg/Kg	☼	10/28/24 22:00	10/31/24 17:07	100
Cobalt	16		0.20	0.078	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Copper	40		0.39	0.18	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Iron	27000		98	45	mg/Kg	☼	10/28/24 22:00	10/31/24 08:29	10

Client Sample ID: DEP-51-S-DUP-241024

Lab Sample ID: 410-193795-6

Date Collected: 10/24/24 00:00
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 98.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	83		0.20	0.074	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Magnesium	7500		9.8	4.8	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Manganese	460		0.39	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Nickel	58		0.39	0.19	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Potassium	5100		39	16	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Selenium	0.23	J	0.39	0.098	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Silver	0.083	J	0.098	0.040	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Sodium	130		49	23	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Thallium	0.30		0.098	0.038	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Vanadium	52		0.78	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 08:27	2
Zinc	350		150	20	mg/Kg	☼	10/28/24 22:00	10/31/24 08:29	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051	J	0.060	0.020	mg/Kg	☼	10/28/24 23:00	11/01/24 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	14		0.42	0.14	mg/Kg	☼	10/29/24 09:48	10/30/24 21:34	1
Cr (III) (SW846 7196A)	1000	!	0.011	0.0035	mg/Kg	☼		10/25/24 10:47	1
Percent Moisture (EPA Moisture)	1.5	!	1.0	1.0	%			10/25/24 07:02	1

Client Sample ID: DEP-51-S5-241024

Lab Sample ID: 410-193795-7

Date Collected: 10/24/24 10:42
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 82.3

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		24	12	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Antimony	1.3		0.24	0.095	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Arsenic	6.9		0.48	0.16	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Barium	130		0.48	0.22	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Beryllium	0.55		0.12	0.028	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Cadmium	0.33		0.12	0.048	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Calcium	19000		48	23	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Chromium	480		2.4	1.1	mg/Kg	☼	10/28/24 22:00	10/31/24 07:57	10
Cobalt	12	^2	0.24	0.095	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Copper	42		0.48	0.21	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Iron	30000		120	55	mg/Kg	☼	10/28/24 22:00	10/31/24 07:57	10
Lead	490		1.2	0.45	mg/Kg	☼	10/28/24 22:00	10/31/24 07:57	10
Magnesium	7300		12	5.8	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Manganese	480		0.48	0.24	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Nickel	38		0.48	0.23	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Potassium	4800		48	19	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Selenium	0.17	J	0.48	0.12	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Silver	0.080	J	0.12	0.048	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Sodium	330		60	29	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Thallium	0.29		0.12	0.047	mg/Kg	☼	10/28/24 22:00	10/31/24 16:59	2
Vanadium	37		0.95	0.24	mg/Kg	☼	10/28/24 22:00	10/31/24 07:55	2
Zinc	360		180	24	mg/Kg	☼	10/28/24 22:00	10/31/24 07:57	10

Client Sample ID: DEP-51-S5-241024

Lab Sample ID: 410-193795-7

Date Collected: 10/24/24 10:42
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 82.3

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050	J	0.068	0.023	mg/Kg	☼	10/28/24 23:00	11/01/24 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	32		0.51	0.17	mg/Kg	☼	10/29/24 09:48	10/30/24 21:34	1
Cr (III) (SW846 7196A)	450	!	0.011	0.0035	mg/Kg	☼		10/25/24 10:47	1
Percent Moisture (EPA Moisture)	17.7	!	1.0	1.0	%			10/25/24 07:02	1

Client Sample ID: DEP-51-S6-241024

Lab Sample ID: 410-193795-8

Date Collected: 10/24/24 10:45
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 89.1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4900		20	10	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Antimony	3.9		0.20	0.081	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Arsenic	10		0.40	0.14	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Barium	52		0.40	0.18	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Beryllium	0.38		0.10	0.024	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Cadmium	0.27		0.10	0.040	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Calcium	14000		40	20	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Chromium	230		2.0	0.96	mg/Kg	☼	10/28/24 22:00	10/31/24 07:53	10
Cobalt	9.3	^2	0.20	0.081	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Copper	200		2.0	0.91	mg/Kg	☼	10/28/24 22:00	10/31/24 07:53	10
Iron	71000		100	47	mg/Kg	☼	10/28/24 22:00	10/31/24 07:53	10
Lead	290		1.0	0.38	mg/Kg	☼	10/28/24 22:00	10/31/24 07:53	10
Magnesium	6200		10	5.0	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Manganese	460		0.40	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Nickel	25		0.40	0.19	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Potassium	1500		40	16	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Selenium	0.15	J	0.40	0.10	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Silver	0.055	J	0.10	0.041	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Sodium	97		51	24	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Thallium	ND		0.51	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 07:53	10
Vanadium	26		0.81	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 07:51	2
Zinc	270		150	20	mg/Kg	☼	10/28/24 22:00	10/31/24 07:53	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.0		1.3	0.45	mg/Kg	☼	10/28/24 23:00	11/01/24 11:10	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	6.5		0.46	0.15	mg/Kg	☼	10/29/24 09:48	10/30/24 21:34	1
Cr (III) (SW846 7196A)	220	!	0.011	0.0035	mg/Kg	☼		10/25/24 10:47	1
Percent Moisture (EPA Moisture)	10.9	!	1.0	1.0	%			10/25/24 07:02	1

Client: Pennsylvania Dept of Env Protection
Project/Site: PA DEP 51st

Job ID: 410-193795-1

Client Sample ID: DEP-51-S8A-241024

Date Collected: 10/24/24 10:47
Date Received: 10/24/24 17:55

Lab Sample ID: 410-193795-9

Matrix: Solid
Percent Solids: 77.2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8600		22	11	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Antimony	1.1		0.22	0.089	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Arsenic	6.2		0.44	0.15	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Barium	78		0.44	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Beryllium	0.49		0.11	0.026	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Cadmium	0.28		0.11	0.044	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Calcium	11000		44	22	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Chromium	330		2.2	1.1	mg/Kg	☼	10/28/24 22:00	10/31/24 08:33	10
Cobalt	9.4		0.22	0.089	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Copper	84		0.44	0.20	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Iron	34000		110	51	mg/Kg	☼	10/28/24 22:00	10/31/24 08:33	10
Lead	320		1.1	0.42	mg/Kg	☼	10/28/24 22:00	10/31/24 08:33	10
Magnesium	4400		11	5.4	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Manganese	480		0.44	0.22	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Nickel	27		0.44	0.21	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Potassium	2400		44	18	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Selenium	0.26	J	0.44	0.11	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Silver	0.082	J	0.11	0.045	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Sodium	190		55	27	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Thallium	0.15		0.11	0.043	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Vanadium	42		0.89	0.22	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2
Zinc	170		33	4.4	mg/Kg	☼	10/28/24 22:00	10/31/24 08:31	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058	J	0.078	0.026	mg/Kg	☼	10/28/24 23:00	11/01/24 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	8.2		0.53	0.18	mg/Kg	☼	10/29/24 09:48	10/30/24 21:34	1
Cr (III) (SW846 7196A)	330	!	0.011	0.0035	mg/Kg	☼		10/25/24 10:47	1
Percent Moisture (EPA Moisture)	22.8	!	1.0	1.0	%			10/25/24 07:02	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-568764/1-A ^2
Matrix: Solid
Analysis Batch: 570050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	9.9	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Antimony	ND		0.20	0.080	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Arsenic	ND		0.40	0.13	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Barium	ND		0.40	0.18	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Beryllium	ND		0.10	0.024	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Cadmium	ND		0.10	0.040	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Calcium	ND		40	20	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Chromium	ND		0.40	0.19	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Cobalt	ND		0.20	0.080	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Copper	ND		0.40	0.18	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Iron	ND		20	9.2	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Lead	ND		0.20	0.076	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Magnesium	ND		10	4.9	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Manganese	ND		0.40	0.20	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Nickel	ND		0.40	0.19	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Potassium	ND		40	16	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Selenium	ND		0.40	0.10	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Silver	ND		0.10	0.041	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Sodium	ND		50	24	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Thallium	ND		0.10	0.039	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Vanadium	ND		0.80	0.20	mg/Kg		10/28/24 22:00	10/31/24 07:43	2
Zinc	ND		30	4.0	mg/Kg		10/28/24 22:00	10/31/24 07:43	2

Lab Sample ID: LCS 410-568764/2-A ^2
Matrix: Solid
Analysis Batch: 570050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	500	515		mg/Kg		103	83 - 119
Antimony	10.0	10.3		mg/Kg		103	87 - 116
Arsenic	50.0	51.1		mg/Kg		102	87 - 114
Barium	50.0	52.2		mg/Kg		104	87 - 117
Beryllium	5.00	4.84		mg/Kg		97	80 - 120
Cadmium	5.00	5.11		mg/Kg		102	88 - 117
Calcium	500	547		mg/Kg		109	84 - 119
Chromium	50.0	51.4		mg/Kg		103	86 - 116
Cobalt	50.0	50.9		mg/Kg		102	85 - 115
Copper	50.0	50.6		mg/Kg		101	84 - 115
Iron	500	511		mg/Kg		102	87 - 117
Lead	5.00	5.07		mg/Kg		101	88 - 117
Magnesium	500	505		mg/Kg		101	83 - 119
Manganese	50.0	50.7		mg/Kg		101	87 - 116
Nickel	50.0	52.4		mg/Kg		105	87 - 115
Potassium	500	517		mg/Kg		103	83 - 118
Selenium	10.0	10.0		mg/Kg		100	87 - 115
Silver	5.00	5.35		mg/Kg		107	88 - 117
Sodium	500	502		mg/Kg		100	81 - 120
Thallium	10.0	10.1		mg/Kg		101	87 - 116
Vanadium	50.0	51.4		mg/Kg		103	86 - 115

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-568764/2-A ^2
Matrix: Solid
Analysis Batch: 570050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	50.0	50.8		mg/Kg		102	86 - 116

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-568783/1-A
Matrix: Solid
Analysis Batch: 570368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.060	0.020	mg/Kg		10/28/24 23:00	11/01/24 08:52	1

Lab Sample ID: LCS 410-568783/2-A
Matrix: Solid
Analysis Batch: 570368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.156		mg/Kg		94	80 - 120

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 410-568963/1-A
Matrix: Solid
Analysis Batch: 569757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.42	0.14	mg/Kg		10/29/24 09:48	10/30/24 21:34	1

Lab Sample ID: LCS 410-568963/2-A
Matrix: Solid
Analysis Batch: 569757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	5.00	4.76		mg/Kg		95	80 - 120

Lab Sample ID: LCSI 410-568963/3-A
Matrix: Solid
Analysis Batch: 569757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568963

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	798	729		mg/Kg		91	80 - 120

Lab Sample ID: 410-193795-1 MSI
Matrix: Solid
Analysis Batch: 569757

Client Sample ID: DEP-51-S3-241024
Prep Type: Total/NA
Prep Batch: 568963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	21		716	640		mg/Kg	☼	86	75 - 125

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 410-193795-1 MSS
Matrix: Solid
Analysis Batch: 569757

Client Sample ID: DEP-51-S3-241024
Prep Type: Total/NA
Prep Batch: 568963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	21		42.4	70.6		mg/Kg	☼	117	75 - 125

Lab Sample ID: 410-193795-1 DU
Matrix: Solid
Analysis Batch: 569757

Client Sample ID: DEP-51-S3-241024
Prep Type: Total/NA
Prep Batch: 568963

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	21		18.1		mg/Kg	☼	15	20

Metals

Prep Batch: 568764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-193795-1	DEP-51-S3-241024	Total/NA	Solid	3050B	
410-193795-2	DEP-51-S16-241024	Total/NA	Solid	3050B	
410-193795-3	DEP-51-S24-241024	Total/NA	Solid	3050B	
410-193795-4	DEP-51-S25-241024	Total/NA	Solid	3050B	
410-193795-5	DEP-51-S21-241024	Total/NA	Solid	3050B	
410-193795-6	DEP-51-S-DUP-241024	Total/NA	Solid	3050B	
410-193795-7	DEP-51-S5-241024	Total/NA	Solid	3050B	
410-193795-8	DEP-51-S6-241024	Total/NA	Solid	3050B	
410-193795-9	DEP-51-S8A-241024	Total/NA	Solid	3050B	
MB 410-568764/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-568764/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 568783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-193795-1	DEP-51-S3-241024	Total/NA	Solid	7471B	
410-193795-2	DEP-51-S16-241024	Total/NA	Solid	7471B	
410-193795-3	DEP-51-S24-241024	Total/NA	Solid	7471B	
410-193795-4	DEP-51-S25-241024	Total/NA	Solid	7471B	
410-193795-5	DEP-51-S21-241024	Total/NA	Solid	7471B	
410-193795-6	DEP-51-S-DUP-241024	Total/NA	Solid	7471B	
410-193795-7	DEP-51-S5-241024	Total/NA	Solid	7471B	
410-193795-8	DEP-51-S6-241024	Total/NA	Solid	7471B	
410-193795-9	DEP-51-S8A-241024	Total/NA	Solid	7471B	
MB 410-568783/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 410-568783/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 570050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-193795-1	DEP-51-S3-241024	Total/NA	Solid	6020B	568764
410-193795-1	DEP-51-S3-241024	Total/NA	Solid	6020B	568764
410-193795-2	DEP-51-S16-241024	Total/NA	Solid	6020B	568764
410-193795-3	DEP-51-S24-241024	Total/NA	Solid	6020B	568764
410-193795-3	DEP-51-S24-241024	Total/NA	Solid	6020B	568764
410-193795-4	DEP-51-S25-241024	Total/NA	Solid	6020B	568764
410-193795-4	DEP-51-S25-241024	Total/NA	Solid	6020B	568764
410-193795-5	DEP-51-S21-241024	Total/NA	Solid	6020B	568764
410-193795-5	DEP-51-S21-241024	Total/NA	Solid	6020B	568764
410-193795-6	DEP-51-S-DUP-241024	Total/NA	Solid	6020B	568764
410-193795-6	DEP-51-S-DUP-241024	Total/NA	Solid	6020B	568764
410-193795-7	DEP-51-S5-241024	Total/NA	Solid	6020B	568764
410-193795-7	DEP-51-S5-241024	Total/NA	Solid	6020B	568764
410-193795-8	DEP-51-S6-241024	Total/NA	Solid	6020B	568764
410-193795-8	DEP-51-S6-241024	Total/NA	Solid	6020B	568764
410-193795-9	DEP-51-S8A-241024	Total/NA	Solid	6020B	568764
410-193795-9	DEP-51-S8A-241024	Total/NA	Solid	6020B	568764
MB 410-568764/1-A ^2	Method Blank	Total/NA	Solid	6020B	568764
LCS 410-568764/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	568764

Analysis Batch: 570169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-193795-1	DEP-51-S3-241024	Total/NA	Solid	6020B	568764

Metals (Continued)

Analysis Batch: 570169 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-193795-2	DEP-51-S16-241024	Total/NA	Solid	6020B	568764
410-193795-4	DEP-51-S25-241024	Total/NA	Solid	6020B	568764
410-193795-5	DEP-51-S21-241024	Total/NA	Solid	6020B	568764
410-193795-6	DEP-51-S-DUP-241024	Total/NA	Solid	6020B	568764
410-193795-7	DEP-51-S5-241024	Total/NA	Solid	6020B	568764

Analysis Batch: 570368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-193795-1	DEP-51-S3-241024	Total/NA	Solid	7471B	568783
410-193795-2	DEP-51-S16-241024	Total/NA	Solid	7471B	568783
410-193795-3	DEP-51-S24-241024	Total/NA	Solid	7471B	568783
410-193795-4	DEP-51-S25-241024	Total/NA	Solid	7471B	568783
410-193795-5	DEP-51-S21-241024	Total/NA	Solid	7471B	568783
410-193795-6	DEP-51-S-DUP-241024	Total/NA	Solid	7471B	568783
410-193795-7	DEP-51-S5-241024	Total/NA	Solid	7471B	568783
410-193795-8	DEP-51-S6-241024	Total/NA	Solid	7471B	568783
410-193795-9	DEP-51-S8A-241024	Total/NA	Solid	7471B	568783
MB 410-568783/1-A	Method Blank	Total/NA	Solid	7471B	568783
LCS 410-568783/2-A	Lab Control Sample	Total/NA	Solid	7471B	568783

General Chemistry

Analysis Batch: 562776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-193795-1	DEP-51-S3-241024	Total/NA	Solid	7196A	
410-193795-2	DEP-51-S16-241024	Total/NA	Solid	7196A	
410-193795-3	DEP-51-S24-241024	Total/NA	Solid	7196A	
410-193795-4	DEP-51-S25-241024	Total/NA	Solid	7196A	
410-193795-5	DEP-51-S21-241024	Total/NA	Solid	7196A	
410-193795-6	DEP-51-S-DUP-241024	Total/NA	Solid	7196A	
410-193795-7	DEP-51-S5-241024	Total/NA	Solid	7196A	
410-193795-8	DEP-51-S6-241024	Total/NA	Solid	7196A	
410-193795-9	DEP-51-S8A-241024	Total/NA	Solid	7196A	

Analysis Batch: 567743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-193795-1	DEP-51-S3-241024	Total/NA	Solid	Moisture	
410-193795-2	DEP-51-S16-241024	Total/NA	Solid	Moisture	
410-193795-3	DEP-51-S24-241024	Total/NA	Solid	Moisture	
410-193795-4	DEP-51-S25-241024	Total/NA	Solid	Moisture	
410-193795-5	DEP-51-S21-241024	Total/NA	Solid	Moisture	
410-193795-6	DEP-51-S-DUP-241024	Total/NA	Solid	Moisture	
410-193795-7	DEP-51-S5-241024	Total/NA	Solid	Moisture	
410-193795-8	DEP-51-S6-241024	Total/NA	Solid	Moisture	
410-193795-9	DEP-51-S8A-241024	Total/NA	Solid	Moisture	

Prep Batch: 568963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-193795-1	DEP-51-S3-241024	Total/NA	Solid	3060A	
410-193795-2	DEP-51-S16-241024	Total/NA	Solid	3060A	
410-193795-3	DEP-51-S24-241024	Total/NA	Solid	3060A	

General Chemistry (Continued)

Prep Batch: 568963 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-193795-4	DEP-51-S25-241024	Total/NA	Solid	3060A	
410-193795-5	DEP-51-S21-241024	Total/NA	Solid	3060A	
410-193795-6	DEP-51-S-DUP-241024	Total/NA	Solid	3060A	
410-193795-7	DEP-51-S5-241024	Total/NA	Solid	3060A	
410-193795-8	DEP-51-S6-241024	Total/NA	Solid	3060A	
410-193795-9	DEP-51-S8A-241024	Total/NA	Solid	3060A	
MB 410-568963/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 410-568963/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSI 410-568963/3-A	Lab Control Sample	Total/NA	Solid	3060A	
410-193795-1 MSI	DEP-51-S3-241024	Total/NA	Solid	3060A	
410-193795-1 MSS	DEP-51-S3-241024	Total/NA	Solid	3060A	
410-193795-1 DU	DEP-51-S3-241024	Total/NA	Solid	3060A	

Analysis Batch: 569757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-193795-1	DEP-51-S3-241024	Total/NA	Solid	7196A	568963
410-193795-2	DEP-51-S16-241024	Total/NA	Solid	7196A	568963
410-193795-3	DEP-51-S24-241024	Total/NA	Solid	7196A	568963
410-193795-4	DEP-51-S25-241024	Total/NA	Solid	7196A	568963
410-193795-5	DEP-51-S21-241024	Total/NA	Solid	7196A	568963
410-193795-6	DEP-51-S-DUP-241024	Total/NA	Solid	7196A	568963
410-193795-7	DEP-51-S5-241024	Total/NA	Solid	7196A	568963
410-193795-8	DEP-51-S6-241024	Total/NA	Solid	7196A	568963
410-193795-9	DEP-51-S8A-241024	Total/NA	Solid	7196A	568963
MB 410-568963/1-A	Method Blank	Total/NA	Solid	7196A	568963
LCS 410-568963/2-A	Lab Control Sample	Total/NA	Solid	7196A	568963
LCSI 410-568963/3-A	Lab Control Sample	Total/NA	Solid	7196A	568963
410-193795-1 MSI	DEP-51-S3-241024	Total/NA	Solid	7196A	568963
410-193795-1 MSS	DEP-51-S3-241024	Total/NA	Solid	7196A	568963
410-193795-1 DU	DEP-51-S3-241024	Total/NA	Solid	7196A	568963

Lab Chronicle

Client: Pennsylvania Dept of Env Protection
Project/Site: PA DEP 51st

Job ID: 410-193795-1

Client Sample ID: DEP-51-S3-241024
Lab Sample ID: 410-193795-1
Date Collected: 10/24/24 10:22
Matrix: Solid
Date Received: 10/24/24 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	562776	MRD6	ELLE	10/25/24 10:44
Total/NA	Analysis	Moisture		1	567743	UVJN	ELLE	10/25/24 07:02

Client Sample ID: DEP-51-S3-241024
Lab Sample ID: 410-193795-1
Date Collected: 10/24/24 10:22
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		2	570050	LHF4	ELLE	10/31/24 08:17
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		10	570050	LHF4	ELLE	10/31/24 08:19
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		100	570169	T8CQ	ELLE	10/31/24 17:05
Total/NA	Prep	7471B			568783	UAMX	ELLE	10/28/24 23:00
Total/NA	Analysis	7471B		1	570368	HNC4	ELLE	11/01/24 09:28
Total/NA	Prep	3060A			568963	W2JF	ELLE	10/29/24 09:48
Total/NA	Analysis	7196A		1	569757	UDS7	ELLE	10/30/24 21:34

Client Sample ID: DEP-51-S16-241024
Lab Sample ID: 410-193795-2
Date Collected: 10/24/24 10:27
Matrix: Solid
Date Received: 10/24/24 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	562776	MRD6	ELLE	10/25/24 10:44
Total/NA	Analysis	Moisture		1	567743	UVJN	ELLE	10/25/24 07:02

Client Sample ID: DEP-51-S16-241024
Lab Sample ID: 410-193795-2
Date Collected: 10/24/24 10:27
Matrix: Solid
Date Received: 10/24/24 17:55
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		2	570050	LHF4	ELLE	10/31/24 07:47
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		2	570169	T8CQ	ELLE	10/31/24 16:57
Total/NA	Prep	7471B			568783	UAMX	ELLE	10/28/24 23:00
Total/NA	Analysis	7471B		1	570368	HNC4	ELLE	11/01/24 09:30
Total/NA	Prep	3060A			568963	W2JF	ELLE	10/29/24 09:48
Total/NA	Analysis	7196A		5	569757	UDS7	ELLE	10/30/24 21:34

Client Sample ID: DEP-51-S24-241024

Lab Sample ID: 410-193795-3

Date Collected: 10/24/24 10:30

Matrix: Solid

Date Received: 10/24/24 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	562776	MRD6	ELLE	10/25/24 10:44
Total/NA	Analysis	Moisture		1	567743	UVJN	ELLE	10/25/24 07:02

Client Sample ID: DEP-51-S24-241024

Lab Sample ID: 410-193795-3

Date Collected: 10/24/24 10:30

Matrix: Solid

Date Received: 10/24/24 17:55

Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		2	570050	LHF4	ELLE	10/31/24 08:09
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		10	570050	LHF4	ELLE	10/31/24 08:11
Total/NA	Prep	7471B			568783	UAMX	ELLE	10/28/24 23:00
Total/NA	Analysis	7471B		1	570368	HNC4	ELLE	11/01/24 09:26
Total/NA	Prep	3060A			568963	W2JF	ELLE	10/29/24 09:48
Total/NA	Analysis	7196A		1	569757	UDS7	ELLE	10/30/24 21:34

Client Sample ID: DEP-51-S25-241024

Lab Sample ID: 410-193795-4

Date Collected: 10/24/24 10:33

Matrix: Solid

Date Received: 10/24/24 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	562776	MRD6	ELLE	10/25/24 10:44
Total/NA	Analysis	Moisture		1	567743	UVJN	ELLE	10/25/24 07:02

Client Sample ID: DEP-51-S25-241024

Lab Sample ID: 410-193795-4

Date Collected: 10/24/24 10:33

Matrix: Solid

Date Received: 10/24/24 17:55

Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		2	570050	LHF4	ELLE	10/31/24 08:05
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		10	570050	LHF4	ELLE	10/31/24 08:07
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		100	570169	T8CQ	ELLE	10/31/24 17:01
Total/NA	Prep	7471B			568783	UAMX	ELLE	10/28/24 23:00
Total/NA	Analysis	7471B		1	570368	HNC4	ELLE	11/01/24 09:14
Total/NA	Prep	3060A			568963	W2JF	ELLE	10/29/24 09:48
Total/NA	Analysis	7196A		1	569757	UDS7	ELLE	10/30/24 21:34

Client Sample ID: DEP-51-S21-241024

Lab Sample ID: 410-193795-5

Date Collected: 10/24/24 10:36

Matrix: Solid

Date Received: 10/24/24 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	562776	MRD6	ELLE	10/25/24 10:44
Total/NA	Analysis	Moisture		1	567743	UVJN	ELLE	10/25/24 07:02

Client Sample ID: DEP-51-S21-241024

Lab Sample ID: 410-193795-5

Date Collected: 10/24/24 10:36

Matrix: Solid

Date Received: 10/24/24 17:55

Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		2	570050	LHF4	ELLE	10/31/24 08:13
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		10	570050	LHF4	ELLE	10/31/24 08:15
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		100	570169	T8CQ	ELLE	10/31/24 17:03
Total/NA	Prep	7471B			568783	UAMX	ELLE	10/28/24 23:00
Total/NA	Analysis	7471B		1	570368	HNC4	ELLE	11/01/24 09:24
Total/NA	Prep	3060A			568963	W2JF	ELLE	10/29/24 09:48
Total/NA	Analysis	7196A		1	569757	UDS7	ELLE	10/30/24 21:34

Client Sample ID: DEP-51-S-DUP-241024

Lab Sample ID: 410-193795-6

Date Collected: 10/24/24 00:00

Matrix: Solid

Date Received: 10/24/24 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	562776	MRD6	ELLE	10/25/24 10:47
Total/NA	Analysis	Moisture		1	567743	UVJN	ELLE	10/25/24 07:02

Client Sample ID: DEP-51-S-DUP-241024

Lab Sample ID: 410-193795-6

Date Collected: 10/24/24 00:00

Matrix: Solid

Date Received: 10/24/24 17:55

Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		2	570050	LHF4	ELLE	10/31/24 08:27
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		10	570050	LHF4	ELLE	10/31/24 08:29
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		100	570169	T8CQ	ELLE	10/31/24 17:07
Total/NA	Prep	7471B			568783	UAMX	ELLE	10/28/24 23:00
Total/NA	Analysis	7471B		1	570368	HNC4	ELLE	11/01/24 09:32
Total/NA	Prep	3060A			568963	W2JF	ELLE	10/29/24 09:48
Total/NA	Analysis	7196A		1	569757	UDS7	ELLE	10/30/24 21:34

Client Sample ID: DEP-51-S5-241024 — **Lab Sample ID: 410-193795-7**
Date Collected: 10/24/24 10:42 — **Matrix: Solid**
Date Received: 10/24/24 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	562776	MRD6	ELLE	10/25/24 10:47
Total/NA	Analysis	Moisture		1	567743	UVJN	ELLE	10/25/24 07:02

Client Sample ID: DEP-51-S5-241024 — **Lab Sample ID: 410-193795-7**
Date Collected: 10/24/24 10:42 — **Matrix: Solid**
Date Received: 10/24/24 17:55 — **Percent Solids: 82.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		2	570050	LHF4	ELLE	10/31/24 07:55
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		10	570050	LHF4	ELLE	10/31/24 07:57
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		2	570169	T8CQ	ELLE	10/31/24 16:59
Total/NA	Prep	7471B			568783	UAMX	ELLE	10/28/24 23:00
Total/NA	Analysis	7471B		1	570368	HNC4	ELLE	11/01/24 09:23
Total/NA	Prep	3060A			568963	W2JF	ELLE	10/29/24 09:48
Total/NA	Analysis	7196A		1	569757	UDS7	ELLE	10/30/24 21:34

Client Sample ID: DEP-51-S6-241024 — **Lab Sample ID: 410-193795-8**
Date Collected: 10/24/24 10:45 — **Matrix: Solid**
Date Received: 10/24/24 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	562776	MRD6	ELLE	10/25/24 10:47
Total/NA	Analysis	Moisture		1	567743	UVJN	ELLE	10/25/24 07:02

Client Sample ID: DEP-51-S6-241024 — **Lab Sample ID: 410-193795-8**
Date Collected: 10/24/24 10:45 — **Matrix: Solid**
Date Received: 10/24/24 17:55 — **Percent Solids: 89.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		2	570050	LHF4	ELLE	10/31/24 07:51
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		10	570050	LHF4	ELLE	10/31/24 07:53
Total/NA	Prep	7471B			568783	UAMX	ELLE	10/28/24 23:00
Total/NA	Analysis	7471B		20	570368	HNC4	ELLE	11/01/24 11:10
Total/NA	Prep	3060A			568963	W2JF	ELLE	10/29/24 09:48
Total/NA	Analysis	7196A		1	569757	UDS7	ELLE	10/30/24 21:34

Lab Chronicle

Client: Pennsylvania Dept of Env Protection
Project/Site: PA DEP 51st

Job ID: 410-193795-1

Client Sample ID: DEP-51-S8A-241024

Lab Sample ID: 410-193795-9

Date Collected: 10/24/24 10:47

Matrix: Solid

Date Received: 10/24/24 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	562776	MRD6	ELLE	10/25/24 10:47
Total/NA	Analysis	Moisture		1	567743	UVJN	ELLE	10/25/24 07:02

Client Sample ID: DEP-51-S8A-241024

Lab Sample ID: 410-193795-9

Date Collected: 10/24/24 10:47

Matrix: Solid

Date Received: 10/24/24 17:55

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		2	570050	LHF4	ELLE	10/31/24 08:31
Total/NA	Prep	3050B			568764	UAMX	ELLE	10/28/24 22:00
Total/NA	Analysis	6020B		10	570050	LHF4	ELLE	10/31/24 08:33
Total/NA	Prep	7471B			568783	UAMX	ELLE	10/28/24 23:00
Total/NA	Analysis	7471B		1	570368	HNC4	ELLE	11/01/24 09:34
Total/NA	Prep	3060A			568963	W2JF	ELLE	10/29/24 09:48
Total/NA	Analysis	7196A		1	569757	UDS7	ELLE	10/30/24 21:34

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Pennsylvania Dept of Env Protection
Job ID: 410-193795-1
Project/Site: PA DEP 51st

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7196A		Solid	Cr (III)
Moisture		Solid	Percent Moisture

Method Summary

Client: Pennsylvania Dept of Env Protection
Job ID: 410-193795-1
Project/Site: PA DEP 51st

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	ELLE
7471B	Mercury (CVAA)	SW846	ELLE
7196A	Chromium, Hexavalent	SW846	ELLE
7196A	Chromium, Trivalent (Colorimetric)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	ELLE
7471B	Preparation, Mercury	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Pennsylvania Dept of Env Protection
Project/Site: PA DEP 51st

Job ID: 410-193795-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-193795-1	DEP-51-S3-241024	Solid	10/24/24 10:22	10/24/24 17:55
410-193795-2	DEP-51-S16-241024	Solid	10/24/24 10:27	10/24/24 17:55
410-193795-3	DEP-51-S24-241024	Solid	10/24/24 10:30	10/24/24 17:55
410-193795-4	DEP-51-S25-241024	Solid	10/24/24 10:33	10/24/24 17:55
410-193795-5	DEP-51-S21-241024	Solid	10/24/24 10:36	10/24/24 17:55
410-193795-6	DEP-51-S-DUP-241024	Solid	10/24/24 00:00	10/24/24 17:55
410-193795-7	DEP-51-S5-241024	Solid	10/24/24 10:42	10/24/24 17:55
410-193795-8	DEP-51-S6-241024	Solid	10/24/24 10:45	10/24/24 17:55
410-193795-9	DEP-51-S8A-241024	Solid	10/24/24 10:47	10/24/24 17:55

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-193795 Chain of Custody

eurofins | Environment Testing

Client Information	Sampler: Jenna Kokoskie	Lab PM: Sachtleben, Kerri S	COC No: 410-134203-38341.1
Client Contact: Glorinés Suárez Rivera	Phone: 484-250-5725	E-Mail: Kerri.Sachtleben@et.eurofinsus.com	State of Origin: PA	Page: Page 1 of 1
Company: Pennsylvania Dept of Env Protection	PWSID:	Analysis Requested	Job #:
Address: 2 East Main Street	Due Date Requested:		Preservation Codes:
City: Norristown	TAT Requested (days): 5 day rush		
State, Zip: PA, 19401	Compliance Project: Δ Yes ✓ No		
Phone: 484-250-5724(Tel)	PO #: 188260		
Email: gsuarezriv@pa.gov	WO #:		
Project Name: PADEP 51ST	Project #: 41020738		
Site:	SSOW#:		Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7199 - CR3 - Trivalent Chrom.	6020B - Total Metals	7471B - Mercury	7196A - Hex Chrom.	Moisture - % Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DEP-51-S3-241024	10/24/24	1022	G	S			X	X	X	X	X	1	
DEP 51-S16-241024		1027											
DEP 51-S24-241024		1030											
DEP 51-S25-241024		1033											
DEP 51-S21-241024		1036											
DEP 51-S-DUP-241024		—											
DEP 51-S5-241024		1042											
DEP 51-S6-241024		1045											
DEP 51-S8A-241024		1047											
~~DEP 51-S~~ JK 10/24/24													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, (II), III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Christine McCarthy	10/24/24 1320	PA DEP		10/24/24 1347	
2		10/24/24 1755				
3					10/24/24 1753	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 009578

Cooler Temperature(s) °C and Other Remarks: R: 3.9 C: 4.0

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Pennsylvania Dept of Env Protection

Job Number: 410-193795-1

Login Number: 193795

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Roth, Stephanie

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Appendix H

Monitoring Well and Soil Gas Sampling Point Sampling Logs

Monitoring Well Sampling Logs

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30066478	Site:	9/91 91/92 Well ID: MW-1A
Date:	10/22/21	Sampled By:	MH
Sampling Time:	—	Recorded By:	MH
Weather:	Sunny	Duplicate/QA/QC:	—

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC / Mo Pad	Purge Method (circle one)	Submersible Centrifugal Bladder Bailer (Peristaltic)
Casing Diameter:	1	Screen Interval: From:	To:
Total Depth:	—	Sampling Interval:	
Depth to Water:	—	Volumes to be Purged:	
Water Column:		Total Volume Purged:	
Gallons/Foot:		Pump On:	Off:
Gallons in Well:		PID Reading:	N/A

Field Parameter Measurements During Purging

	Sample Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
PW1	1310	—	—	—	7.00	11.44	0.639	710?	5.21	18.27	161	Yellow
		0-10ft screen										
TW2	1325				13.25	8.91	0.757	710+	10.71	15.24	-92	clear
				0-15'	screen							
TW3	1321				13.75	8.51	0.762	710+	9.61	18.77	-62	clear
				0-15' screen								
TW4	—			DRY								
				0-15' screen								
TW1	1400				7.91	12.61	0.641	710+	6.91	19.02	-57	Yellow

Observations During Sampling

Well Condition:		Purge Water Disposal:	
Color:		Turbidity(qualitative):	
Odor:		Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab	ARCADIS	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: _____ Site: Alliance Well ID: MW-001

Date: 10/25/21 Sampled By: NS

Sampling Time: 1235 Recorded By: NS

Weather: 70 SUNNY Duplicate/QA/QC: _____

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		N9360TVCF

Purging Information

Casing Material: PVC

Casing Diameter: PVC

Total Depth: 20.16

Depth to Water: 10.40

Water Column: 9.76

Gallons/Foot: .16

Gallons in Well: 1.5616

Purge Method:(circle one) (Submersible) Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____ _____

Pump On: 1154 Off: _____

PID Reading: N/A

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1155	0	2.00	0	10.52	7.26	0.637	50+	1.06	19.01	-128	
1200	5		1.00	10.50	7.41	0.624	14.2	0.58	19.50	-139	
1205	10		1.25	10.50	7.16	0.622	10.5	0.53	20.04	-142	
1210	15		1.50	10.50	7.17	0.629	11.0	0.53	21.04	-145	
1215	20		1.75	10.50	7.16	0.621	10.2	0.51	21.64	-145	
1220	25		2.00	10.50	7.20	0.621	0.0	0.46	20.32	-149	
1225	30		2.25	10.50	7.21	0.620	0.0	0.46	19.84	-150	
1230	35		2.50	10.50	7.22	0.619	0.0	0.45	19.88	-152	

Observations During Sampling

Well Condition: Good

Color: _____

Odor: _____

Purge Water Disposal: Ground

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab ✓ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: 3 Site: Alliance Well ID: MW-002
Date: 10/25/21 Sampled By: NS
Sampling Time: 1135 Recorded By: NS
Weather: 65 cloudy Duplicate/QA/QC: N/A

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		N9360VCF

Purging Information

Casing Material: 2"
Casing Diameter: PVC
Total Depth: 20.22
Depth to Water: 7.23
Water Column: 12.99
Gallons/Foot: .16
Gallons in Well: 2.07784

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic
Screen Interval: From: _____ To: _____
Sampling Interval: _____
Volumes to be Purged: _____
Total Volume Purged: _____
Pump On: 1039 Off: _____
PID Reading: N/A

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1040	0	200	0	7.54	6.13	0.431	85.2	0.77	16.81	-99	Black
1045	5	|	.25	7.45	6.30	0.418	56.2	0.57	16.97	-106	
10.50	10	|	1.00	7.56	6.04	0.408	6.7	0.63	16.30	-101	
1055	15	|	2.0	7.68	6.41	0.415	10.3	0.67	16.42	-99	
1100	20	|	3.0	7.70	6.82	0.413	3.2	0.80	16.43	-130	
1105	25	|	4.00	7.93	7.00	0.415	4.3	1.04	16.15	-155	
1110	30	|	5.00	8.57	7.85	0.415	5.4	1.30	16.26	-240	
1115	35	|	6.00	8.49	8.35	0.411	3.2	1.53	16.15	-284	
1120	40	|	7.00	8.53	8.36	0.406	1.6	1.50	16.16	-305	
1125	45	|	8.00	8.98	8.34	0.418	3.4	.46	16.22	-301	
1130	50		9.00	8.21	8.42	0.410	0.9	1.47	16.18	-306	

Observations During Sampling

Well Condition: Good
Color:
Odor:

Purge Water Disposal: Ground
Turbidity(qualitative):
Other (OVA, HNU,etc.):

Constituents Sampled	Container Description: From Lab ✓ ARCADIS	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: _____ Site: Alliance **Well ID:** MW-003

Date: 10/25/21 Sampled By: NS

Sampling Time: 1405 Recorded By: NS

Weather: 70 Sunny Duplicate/QA/QC: DUP-1

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		~~M936TUCF~~ M936TUCF

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 24.75

Depth to Water: 6.74

Water Column: 18.01

Gallons/Foot: .16

Gallons in Well: 2.8816

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____

Pump On: 1249 Off: _____

PID Reading: N/A

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1250	0	200	—	7.02	6.85	1.58	575	0.37	17.53	-63	
1255	5		.25	7.02	6.78	1.63	907	0.05	17.27	-96	
1300	10		.50	7.02	6.81	1.48	1104	0.00	17.66	-96	
1305	15		.75	7.02	6.88	1.22	149	0.00	18.22	-29	
1310	20		1.00	7.02	7.89	0.715	174	0.00	18.01	-8	1. yellow
1315	25		1.50	7.02	9.39	0.681	30.2	0.00	18.30	-76	2. yellow
1320	30		2.00	7.02	10.36	0.673	35.7	0.00	18.34	-142	yellow
1325	35		2.50	7.02	10.31	0.1063	39.3	0.00	18.45	-160	
1330	40		3.00	7.02	10.93	0.1696	64.5	0.00	18.52	-179	
1335	45		3.50	7.02	11.43	0.797	90.2	0.00	18.73	-202	
1340	50		4.00	7.02	11.57	0.839	44.1	0.07	18.40	-201	
1345	55		4.50	7.02	11.70	0.910	36.8	0.11	18.60	-196	
1350	60		5.00	7.02	11.78	0.982	25.3	0.17	18.45	-188	
1355	65		5.50	7.02	11.76	0.979	26.2	0.27	18.55	-185	
1400	70		6.00	7.02	11.75	0.977	27.4	0.35	18.39	-181	
1405	75										

Observations During Sampling

Well Condition: Good

Color: _____

Odor: _____

Purge Water Disposal: Ground

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab ✓ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: _____ Site: Alliance Well ID: MW-0004

Date: 10/25/21 Sampled By: NS

Sampling Time: ~~1540~~ 1000 Recorded By: NS

Weather: 70 Sunny Duplicate/QA/QC: N/A

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 21.50

Depth to Water: 11.67

Water Column: 9.88

Gallons/Foot: .16

Gallons in Well: 1.5808

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____

Pump On: _____ Off: _____

PID Reading: N/A

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1445	0	100	–	11.73	12.84	5.83	475	6.31	18.83	-127	yellow
1450	5		.25	11.75	12.80	5.86	321	6.29	17.02	-246	yellow
1455	10		.50	11.75	12.76	5.97	279	6.26	16.22	-326	yellow
1500	15		1.00	11.75	12.90	5.92	178	1.75	16.99	-333	yellow
1505	20		1.50	11.75	12.78	5.55	721	1.36	19.78	-308	
1510	25		2.00	11.75	12.97	6.34	747	1.73	15.37	-104	
1515	30		2.50	11.75	12.92	6.21	642	1.78	13.22	-117	
1520	35		3.00	11.75	12.88	6.20	643	1.67	17.16	-116	
1525	40		3.50	11.75	12.91	6.19	362	1.52	17.18	-114	
1530	45		4.00	11.75	12.94	6.52	331	1.41	16.01	-116	
1535	50		4.50	11.75	12.95	6.50	324	1.39	16.13	-121	
1540	55		5.00	11.75	12.97	6.49	109	1.48	16.11	-121	
1545	60		5.50	11.75	12.96	6.39	493	1.76	15.57	-114	
1550	65		6.00	11.75	12.97	6.44	52.7	1.68	15.50	-113	
1555	70		6.50	11.75	12.96	6.44	50.2	1.74	15.38	-111	

Observations During Sampling

Well Condition: Good

Color: _____

Odor: _____

Purge Water Disposal: Ground

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab ✓ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: _____ Site: _____ Well ID: MW-005

Date: 10/25/21 Sampled By: _____

Sampling Time: _____ Recorded By: _____

Weather: _____ Duplicate/QA/QC: _____

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 11.84

Depth to Water: 11.88

Water Column: _____

Gallons/Foot: _____

Gallons in Well: _____

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____ _____

Pump On: _____ Off: _____

PID Reading: N/A

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:

N/A

Observations During Sampling

Well Condition: _____ Purge Water Disposal: _____

Color: _____ Turbidity(qualitative): _____

Odor: _____ Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description From Lab _____ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	MW-1
Date:	~~4/1/22~~ 4/1/22	Sampled By:	MH		
Sampling Time:	12:55	Recorded By:	MH		
Weather:	Cloudy 50°	Duplicate/QA/QC:	~~MH~~		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible	Centrifugal	Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:		To:	
Total Depth:	19.92	Sampling Interval:			
Depth to Water:	10.14	Volumes to be Purged:			
Water Column:	9.78	Total Volume Purged:	4.00		
Gallons/Foot:	0.16	Pump On:	12:10	Off:	12:50
Gallons in Well:	1.56 48	PID Reading:	0/0/0		

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
12:10	-	250	-	10.24	6.77	0.809	463	0.48	13.47	-113	
12:15	5	250	0.75	10.25	6.90	0.810	720	0.41	13.07	-114	
12:20	10		2.00	10.22	7.01	0.805	29.4	0.00	12.94	-125	
12:25	15		2.50	10.16	7.06	0.802	20.0	0.00	12.25	-128	
12:30	20		2.75	10.14	7.05	0.800	15.5	0.00	12.36	-130	
12:35	25		3.00	10.18	7.05	0.800	13.00	0.00	12.41	-131	
12:40	30		3.50	10.21	7.04	0.797	8.7	0.00	12.71	-131	
12:45	35		3.75	10.20	7.04	0.798	9.2	0.00	12.77	-131	
12:50	40		4.00	10.23	7.05	0.797	8.9	0.00	12.89	-133	
~~12:55~~	~~45~~										
~~13:00~~	~~50~~										

Observations During Sampling

Well Condition:	good	Purge Water Disposal:	
Color:	cloudy grey	Turbidity(qualitative):	
Odor:	yes	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number: 30108678.03B
Site: Alliance 51st St
Well ID: MW-2
Date: ~~01/26/22~~ 4/1/22
Sampled By: MH
Sampling Time: 14:45
Recorded By: MH
Weather: cloudy 50°
Duplicate/QA/QC: —

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC
Casing Diameter: 2
Total Depth: 19.93
Depth to Water: 6.88
Water Column: 13.05
Gallons/Foot: 0.16
Gallons in Well: 2.088

Purge Method:(circle one) (Submersible) Centrifugal Bladder Bailer Peristaltic
Screen Interval: From: _____ To: _____
Sampling Interval: _____
Volumes to be Purged: _____
Total Volume Purged: 8.75
Pump On: 13:25 Off: _____
PID Reading: C/a/C

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
13:25	—	250	—	6.88	7.07	0.495	553	0.32	14.74	-131	Yack color
13:30	5	750	1.50	8.36	7.29	0.481	59.5	0.18	14.70	-157	dark grey color
13:35	10		3.25	7.21	7.35	0.487	122	0.31	14.69	-181	
13:40	15		3.75	7.24	7.53	0.484	52.2	0.48	14.75	-221	light grey
13:45	20		4.00	7.25	7.63	0.469	40.3	0.66	14.71	-236	
13:50	25		5.00		7.81	0.487	18.0	0.87	14.71	-266	
13:55	30			Battery	Died						Black color
14:00	35		5.50	7.21	7.40	0.506	1000	1.06	14.81	-171	
14:05	40		5.00	7.20	7.485	0.467	392	2.78	14.85	-265	light grey
14:10	45		6.50	7.22	8.43	0.483	30.3	4.50	14.80	-294	
14:15	50		7.25	7.28	8.498	0.463	13.0	3.84	14.80	-315	
14:20	55		8.00	7.30	8.26	0.493	13.4	3.40	14.77	-305	
14:25	60		8.25	7.30	8.16	0.485	13.2	3.08	14.74	-314	
14:30	65		8.75	7.34	8.22	0.489	13.3	3.52	14.71	-315	

Observations During Sampling

Well Condition: good
Color: _____
Odor: no

Purge Water Disposal: _____
Turbidity(qualitative): _____
Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	**Well ID:**	MW-3
Date:	~~01/26/22~~ 4/1/22	Sampled By:	MDM		
Sampling Time:	1320	Recorded By:	MDM		
Weather:	Cloudy, 50°	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible / Centrifugal / Bladder / Bailer / Peristaltic
Casing Diameter:	2"	Screen Interval: From:	To:
Total Depth:	~~37~~ 23.95	Sampling Interval:	
Depth to Water:	4.46	Volumes to be Purged:	
Water Column:	19.49	Total Volume Purged:	
Gallons/Foot:	~~3.19~~ 0.16	Pump On:	Off:
Gallons in Well:	3.19	PID Reading:	0/0/0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1324	4	200		4.46	9.47	1.21	71m	10.53	14.13	-256	
1327	7				8.39	1.17	541	9.61	13.21	197	
1330	10			4.45	7.13	1.131	237	3.42	12.96	80	
1334	14				7.04	1.13	171	3.43	12.70	165	
1337	17			4.47	7.02	1.68	116	1.68	12.58	137	
1341	21				7.02	1.16	116	1.51	12.41	112	
1344	24	↓	5	4.48	7.02	1.16	115	1.14	12.37	112	

Observations During Sampling

Well Condition:	Good	Purge Water Disposal:	
Color:	Yellow	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab _____ ARCADIS _____	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	**Well ID:**	MW-4
Date:	~~01/26/22~~ 4/1/22	Sampled By:	MH		
Sampling Time:	1131	Recorded By:	MH		
Weather:	Cloudy, 40	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	21.95	Sampling Interval:	
Depth to Water:	8.63	Volumes to be Purged:	
Water Column:	13.32	Total Volume Purged:	
Gallons/Foot:	0.16	Pump On:	Off:
Gallons in Well:	2.07	PID Reading:	0/C/C

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1110	4	25^		8.67	13.47	6.154	71nc	5.41	13.69	-75	
1115	5				13.40	6.10 >	71nc	7.27	13.75	-72	
1120	10			8.91	13.5	5.57	71nc	4.90	13.99	-70	
1125	14				13.20	5.82	71nc	4.72	14.03	-67	
1130	21			8.92	13.20	5.52	71nc	4.66	14.15	-66	
1135	24			8.93	13.21	5.65	71nc	4.65	14.21	-64	
1140	29	↓	5	8.95	13.25	5.84	71nc	4.49	14.37	-64	

Observations During Sampling

Well Condition:	Good	Purge Water Disposal:	
Color:	Yellow	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Mw-5

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	~~MW-009~~
Date:	~~01/26/22~~ 4/1/22	Sampled By:	MH		
Sampling Time:	1090	Recorded By:	MH		
Weather:	50° partly cloudy	Duplicate/QA/QC:	-		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	(Submersible) Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	21.09	Sampling Interval:	
Depth to Water:	12.09	Volumes to be Purged:	
Water Column:	9.00	Total Volume Purged:	5.00
Gallons/Foot:	0.16	Pump On:	9:40 Off: 10:25
Gallons in Well:	1.44	PID Reading:	0/0/0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
9:40	0	250	0	12.09	5.71	0.369	461	1.60	14.66	131	
9:45	5	↓	0.80	12.61	5.83	0.336	90.2	0.00	15.42	115	
9:50	10		1.50	12.66	5.83	0.329	101	0.00	15.63	121	
9:55	15		2.00	12.63	5.83	0.327	70.9	0.00	15.64	124	
10:00	20		2.50	12.64	5.83	0.326	13.6	0.00	15.67	125	
10:05	25		3.00	12.65	5.84	0.325	4.8	0.00	15.64	129	
10:10	30		3.50	12.69	5.84	0.325	12.2	0.00	15.70	129	
10:15	35		4.00	12.72	5.84	0.325	9.0	0.00	15.79	126	
10:20	40		4.50	12.71	5.84	0.325	9.7	0.00	15.41	128	
10:25	45	↓	5.00	12.11	5.89	0.325	9.9	0.00	15.84	125	

Observations During Sampling

Well Condition:	good	Purge Water Disposal:	
Color:	none	Turbidity(qualitative):	
Odor:	none	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	MW-7
Date:	~~01/26/22~~ 4/1/24	Sampled By:	MH		
Sampling Time:	1400	Recorded By:	MH		
Weather:	Cloudy, 40	Duplicate/QA/QC:	DUP-1		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	18.08	Sampling Interval:	
Depth to Water:	4.96	Volumes to be Purged:	
Water Column:	13.04	Total Volume Purged:	
Gallons/Foot:	2" 0.16	Pump On:	Off:
Gallons in Well:	2.09	PID Reading:	0/0/0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1315	0	200		4.96	12.76	2.14	7.16	3.59	12.47	-119	
1320	5			5.02	12.48	2.07	7.16	1.76	12.61	-145	
1325	10				12.20	1.61	6.21	0.17	12.41	-147	
1330	15			5.10	12.41	1.51	6.11	0.15	12.19	-146	
1334	20				12.42	1.61	5.17	0.12	12.20	-159	
1340	21			5.11	12.39	1.61	2.48	0.10	11.98	-162	
1345	30			5.14	12.37	1.57	1.66	0.10	11.76	-147	
1350	35			5.14	12.37	1.57	1.64	0.10	11.75	-147	
1354	40	↓	6	5.14	12.37	1.57	1.65	0.10	11.75	-147	

Observations During Sampling

Well Condition:	Good	Purge Water Disposal:	
Color:	Yellow	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number: 30108678.03B Site: Alliance 51st St **Well ID:** MW-8

Date: ~~01/26/22~~ 4/1/22 Sampled By: MH

Sampling Time: 11:40 Recorded By: MH

Weather: ~~partly sunny~~ 50° Duplicate/QA/QC: -

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC

Casing Diameter: 2

Total Depth: 19.41

Depth to Water: 4.14

Water Column: 15.27

Gallons/Foot: 0.16

Gallons in Well: 2.4432

Purge Method:(circle one) (Submersible) Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: 3.75

Pump On: 11:00 Off: 11:40

PID Reading: 0/0/0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
11:00	-	250	-	4.15	6.23	0.593	953	1.21	14.99	70	
11:05	5	250	0.50	4.74	6.48	0.548	1000	0.00	15.02	15	
11:10	10	|	0.75	5.04	6.56	0.599	753	0.00	15.05	-16	
11:15	15	|	1.00	5.31	6.62	0.598	973	0.00	15.32	-30	
11:20	20	|	1.50	5.81	6.66	0.600	998	0.00	15.16	-50	
11:25	25	|	2.50	6.84	6.62	0.628	134	0.41	14.61	-15	
11:30	30	|	2.75	6.63	6.63	0.627	120	0.45	14.43	-9	
11:35	35	|	3.75		6.65	0.611	130	0.85	14.56	-32	

Observations During Sampling

Well Condition: _____

Color: cloudy grey

Odor: _____

Purge Water Disposal: _____

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	MW-9
Date:	~~3/26/22~~ 4/19/22	Sampled By:	MH MDH		
Sampling Time:	1037	Recorded By:	MDH		
Weather:	Cloudy, rain	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	21.80	Sampling Interval:	
Depth to Water:	9.93	Volumes to be Purged:	
Water Column:	11.87	Total Volume Purged:	
Gallons/Foot:	0.16	Pump On:	Off:
Gallons in Well:	1.90	PID Reading:	0/0.6

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
955	0	150		9.95	13.46	9.25	7/100	7.72	12.4	-99	
1000	5			10.07	13.54	9.21	7/100	7.02	13.17	-91	
1005	10			10.17	13.553	9.22	7/100	6.96	13.35	-70	
1010	15			10.20	13.549	9.16	7/100	6.71	13.57	-60	
1015	20			10.27	13.40	9.12	7/100	6.511	13.58	-54	
1020	25			10.21	13.4	9.12	7/100	6.52	13.52	-54	
1025	30	↓	4	10.21	13.41	9.12	7/100	6.50	13.611	-54	
			1030								

Observations During Sampling

Well Condition:	Good	Purge Water Disposal:	
Color:	Clear	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	MW-1
Date:	07/11/22	Sampled By:	M. Hinkle		
Sampling Time:	1090	Recorded By:	M. Hinkle		
Weather:	Sunny 77°	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		X8J70N0G

Purging Information

Casing Material:	PVC	Purge Method:(circle one) ~~Submersible~~ Centrifugal Bladder Bailer Peristaltic	
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	20.2	Sampling Interval:	
Depth to Water:	10.37	Volumes to be Purged:	
Water Column:	9.84	Total Volume Purged:	2.50
Gallons/Foot:	0.16	Pump On:	1020 Off: 1055
Gallons in Well:	1.574	PID Reading:	

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1020	—	200	—	10.37	7.14	0.753	1000	3.22	26.77	-107	
1025	5		0.75	10.38	7.08	0.767	1000	0.97	25.12	-115	
1030	10		0.50	10.40	6.96	0.771	1000	0.52	25.66	-118	
1035	15		0.75	10.41	6.98	0.759	904	0.38	25.96	-121	
1040	20		1.00	10.41	6.99	0.710	534	0.31	26.21	-126	
1045	25		1.50	10.41	7.11	0.695	46.3	0.28	26.67	-130	
1050	30		2.00		7.11	0.715	46.0	0.25	25.67	-134	
1055	35		2.50		7.12	0.714	49.5	0.22	25.89	-137	

Observations During Sampling

Well Condition:	good	Purge Water Disposal:	
Color:	grey	Turbidity(qualitative):	
Odor:		Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	MW-2
Date:	07/11/22	Sampled By:	M. Hank		
Sampling Time:	1210	Recorded By:	MHank		
Weather:	Sunny 60°	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		X8J70N0G

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2"	Screen Interval: From:	To:
Total Depth:	20.23	Sampling Interval:	
Depth to Water:	7.08	Volumes to be Purged:	—
Water Column:	13.15	Total Volume Purged:	2.75
Gallons/Foot:	0.16	Pump On:	1120 Off: 12:05
Gallons in Well:	2.104	PID Reading:	—

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1120	-	200	-	7.24	7.09	0.558	44.5	2.75	73.64	-111	
1125	5		0.75	7.31	6.81	0.556	30.2	0.96	22.08	-92	
1130	10		0.50	7.31	6.95	0.537	51.5	0.52	21.28	-126	
1135	15		0.75	7.31	7.57	0.516	0.0	0.34	21.42	-207	
1140	20		1.00	7.31	7.67	0.516	0.0	0.33	21.49	-211	
1145	25		1.25	7.31	7.97	0.514	0.0	0.28	21.62	-245	
1150	30		1.50	7.31	8.44	0.503	0.0	0.25	21.77	-286	
1155	35		1.75	7.31	8.82	0.497	0.0	0.23	21.89	-316	
1200	40		2.00	7.31	8.89	0.501	0.0	0.26	21.87	-325	
1205	45		2.75	7.31	8.88	0.503	0.0	0.25	21.92	-326	

Observations During Sampling

Well Condition:	good	Purge Water Disposal:	
Color:	dark → clear	Turbidity(qualitative):	
Odor:	none	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	**Well ID:**	MW-3
Date:	07/11/22	Sampled By:	M Hank		
Sampling Time:	0940	Recorded By:	MHank		
Weather:	Sunny	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		X8570NDG

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	(Submersible)	Centrifugal	Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:		To:	
Total Depth:	24.03	Sampling Interval:			
Depth to Water:	5.93	Volumes to be Purged:			
Water Column:	18.10	Total Volume Purged:	5.50		
Gallons/Foot:	0.16	Pump On:	0840	Off:	935
Gallons in Well:	23.0812	PID Reading:	—		

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
0840	—	200	—	6.31	6.50	1.71	1000	8.62	18.62	-28	
0845	5		1.00	6.31	6.61	1.72	187	1.62	17.88	-72	
0850	10		1.00	6.32	6.63	1.76	96.7	1.16	18.00	-88	
0855	15		1.50	6.33	6.66	1.6	60.0	0.91	17.82	-95	
0900	20		2.00	6.32	6.74	1.38	55.6	0.82	18.04	-61	
0905	25		2.50	6.34	6.96	0.985	33.7	0.81	18.27	-23	
0910	30		3.00	6.35	7.42	0.909	29.3	0.83	18.49	-33	
0915	35		3.50	6.40	9.11	0.836	9.2	0.81	18.51	-103	
0920	40		4.00	6.43	9.40	0.815	10.6	0.78	18.61	-128	
0925	45		4.50	6.51	9.55	0.802	8.0	0.79	18.88	-148	
0930	50		5.00	6.54	9.62	0.797	5.8	0.68	18.94	-147	
0935	55		5.50	6.57	9.65	0.802	6.2	0.64	18.99	-148	

Observations During Sampling

Well Condition:	good	Purge Water Disposal:	
Color:	~~clear~~ yellow	Turbidity(qualitative):	
Odor:	none	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number: 30108678.03B
Site: Alliance 51st St
Well ID: MW-4
Date: 07/11/22
Sampled By: MH
Sampling Time: 12pm
Recorded By: MH
Weather:
Duplicate/QA/QC:

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC
Casing Diameter: 2
Total Depth: 21.53
Depth to Water: 10.45
Water Column:
Gallons/Foot:
Gallons in Well:

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic
Screen Interval: From: To:
Sampling Interval:
Volumes to be Purged:
Total Volume Purged:
Pump On: Off:
PID Reading: 0.0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1200	0	24		10.91	12.96	5.97	718	3.98	21.16	-73	
1203	5				13.57	6.14	102	3.0	18.11	-73	
1206	6				13.58	6.08	6.01	2.79	17.99	-76	
1209	9			10.95	13.59	6.46	303	2.72	17.70	-77	
1212	12				13.0	6.46	212	2.57	16.78	-78	
1215	15				13.0	6.45	166	2.61	16.77	-78	
1218	18			10.57	13.0	6.46	998	2.67	16.64	-75	
1221	21				13.10	6.46	101	2.62	16.62	-75	
1224	24		5	10.57	13.05	6.47	99.5	2.41	16.60	-78	

Observations During Sampling

Well Condition:
Color: Yellow
Odor:

Purge Water Disposal:
Turbidity(qualitative):
Other (OVA, HNU,etc.):

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	**Well ID:**	MW-5
Date:	07/11/22	Sampled By:	MH		
Sampling Time:	1011	Recorded By:	MH		
Weather:	Sunny 65°	Duplicate/QA/QC:	DUP-1		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	21.35	Sampling Interval:	
Depth to Water:	11.94	Volumes to be Purged:	
Water Column:		Total Volume Purged:	
Gallons/Foot:		Pump On:	Off:
Gallons in Well:		PID Reading:	C/C/C

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
927	5	2L		12.07	6.80	0.248	946	0.64	19.47	57	
930	8				6.41	0.247	276	0.0	18.57	82	
934	12			12.11	6.66	0.28	107	2.91	18.64	89	
940	18				6.81	0.267	29.7	2.07	18.40	90	
944	22			12.12	6.80	0.271	27.7	2.15	18.37	91	
948	26				6.82	0.275	20.11	0.0	18.37	94	
952	30			12.12	6.82	0.276	14.7	0.0	18.41	91	
956	34				6.81	0.274	13.4	0.0	18.49	94	
1000	38			12.12	6.81	0.278	11.7	0.0	18.54	96	
1004	42	↓	5L	12.12	6.81	0.276	9.2	0.0	18.97	91	

Observations During Sampling

Well Condition:	Grav	Purge Water Disposal:	
Color:	Clear	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS | Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	Well ID:	MW-7
Date:	07/11/22	Sampled By:	M. Hank		
Sampling Time:	1330	Recorded By:	M. Hank		
Weather:	Sunny 40°	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		X8J 70NO6

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2"	Screen Interval: From:	To:
Total Depth:	18.95	Sampling Interval:	
Depth to Water:	5.15	Volumes to be Purged:	
Water Column:	13.80	Total Volume Purged:	
Gallons/Foot:	0.16	Pump On:	12:40 Off: 1330
Gallons in Well:	2.208	PID Reading:	—

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1240	—	200	—	5.15	10.74	1.64	036	2.38	20.95	-191	
1245	5	200	0.25	5.13	10.94	1.16	691	0.97	20.62	-222	
1250	10		0.50	5.27	11.21	1.95	687	0.46	22.17	-246	
1255	15		0.75	5.37	11.25	1.92	643	0.39	23.5	-244	
1300	20		1.00	5.44	11.43	1.74	170	0.29	22.22	-271	
1305	25		1.25	5.51	11.36	1.64	69.5	0.25	21.59	-285	
1310	30		1.50	5.53	11.59	1.64	60.3	0.23	21.61	-291	
1315	35		2.00	5.55	11.60	1.64	50.7	0.21	21.66	-295	
1320	40		2.25	5.57	11.59	1.64	48.7	0.20	21.97	-299	
1325	45		2.50	5.56	11.59	1.64	43.6	0.22	22.18	-302	
1330	50		2.75	5.55	11.59	1.63	42.0	0.22	22.25	-303	

Observations During Sampling

Well Condition:	good	Purge Water Disposal:	
Color:	yellow/green	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab / ARCADIS	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678.03B	Site:	Alliance 51st St	**Well ID:**	MW-8
Date:	07/11/22	Sampled By:	MDK		
Sampling Time:	900	Recorded By:	MDK		
Weather:	Sunny 85°	Duplicate/QA/QC:	-		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	19.87	Sampling Interval:	
Depth to Water:	4.29	Volumes to be Purged:	
Water Column:		Total Volume Purged:	
Gallons/Foot:		Pump On:	Off:
Gallons in Well:		PID Reading:	0/0 / 176

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
845	0	250		4.31	6.59	0.497	891	0.18	23.4	18	
850	5				6.61	0.541	427	0.19	23.5	-10	
855	10			4.37	6.68	0.541	278	0.19	24.0	-30	
900	15				6.66	0.534	147	0.06	24.86	-37	
905	20			4.45	6.72	0.526	127	0.08	24.89	-45	
910	25				6.74	0.516	119	0.04	24.97	-41	
915	30			4.49	6.71	0.517	116	0.02	24.9	-47	
920	35			4.51	6.41	0.517	116	0.02	24.96	-43	
925	40		5	4.51	6.71	0.515	117	0.01	24.99	-44	

Observations During Sampling

Well Condition:	Good	Purge Water Disposal:	
Color:	Clear	Turbidity(qualitative):	
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: 30108678.03B | Site: Alliance 51st St | **Well ID:** MW-9

Date: 07/11/22 | Sampled By: MH

Sampling Time: 1145 | Recorded By: MH

Weather: | Duplicate/QA/QC:

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC

Casing Diameter: 2

Total Depth: 21.65

Depth to Water: 16.73

Water Column:

Gallons/Foot:

Gallons in Well:

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: To:

Sampling Interval:

Volumes to be Purged:

Total Volume Purged:

Pump On: Off:

PID Reading: 0/0/1

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
Purge											
1110	0	250		16.97	12.96	7.45	12.9	9.17	20.21	-15	
1115	5				12.97	7.44	11.4	0.0	20.15	-11.5	
1120	10			16.97	12.96	7.44	11.2	0.0	20.11	-11.9	
1125	15				12.96	7.43	10.9	0.0	20.07	-11.6	
1130	20			16.97	12.96	7.42	10.2	0.0	20.04	-11.6	
1135	25				12.96	7.42	10.4	0.0	19.74	-11.6	
1140	30	↓	5	16.61	10.96	17.42	10.7	0.0	19.65	-11.7	
								0.0	19.67	-11.7	

Observations During Sampling

Well Condition: | Purge Water Disposal:

Color: | Turbidity(qualitative):

Odor: | Other (OVA, HNU,etc.):

Constituents Sampled	Container Description: From Lab ____ ARCADIS ____	Preservative
VOCs	3x Vials	HCL
Dissolved Lead	1 x 250ml Plastic	HNO3

Groundwater Sampling Form

ARCADIS

Project Number	30108678	**Well ID**	MW-1			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	60.1 degrees F and Mostly Clear. The wind is blowing N at 12.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	10.41	**Total Depth (ft-bmp)**	20.19	**Water Column (ft)**	9.78	**Gallons in Well**	1.59
Purge Start	10:35	**Pump Intake (ft-bmp)**	18	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End	11:45	**Volumes Purged**	2.67	**Sample ID**	MW-1	**Sampled by**	Madelyn Hank
Sample Time	11:40	**Gallons Purged**	4.25	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:35	0	0	--	10.41	0.00	7.37	0.878	528	2.25	18	-148	--	--
10:40	5	5	--	10.45	0.75	6.87	0.881	355	1.66	18.16	-130	--	--
10:45	5	10	--	10.45	1.50	6.84	0.86	195	1.5	18.55	-126	--	--
10:50	5	15	--	10.48	1.75	6.84	0.859	132	1.48	18.58	-126	--	--
10:55	5	20	--	10.50	2.00	6.84	0.856	74.8	1.46	18.36	-126	--	--
11:00	5	25	--	10.51	2.50	6.83	0.853	35.5	1.44	19.05	-126	--	--
11:05	5	30	--	10.51	2.75	6.85	0.851	26.3	1.43	19.09	-126	--	--
11:10	5	35	--	10.51	3.00	6.86	0.849	19	1.41	19.24	-127	--	--
11:15	5	40	--	10.51	3.25	6.87	0.852	24.8	1.4	19.37	-132	--	--
11:20	5	45	--	10.51	3.25	6.84	0.844	13.5	1.48	19.67	-127	--	--
11:25	5	50	--	10.51	3.50	6.85	0.849	11.4	1.43	19.36	-128	--	--
11:30	5	55	--	10.51	3.75	6.85	0.843	10.9	1.38	19.51	-130	--	--
11:35	5	60	--	10.51	4.25	6.87	0.843	11	1.38	19.12	-132	Gray	Mild

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
VOCs	250 mL Amber	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:
Well Locked at Arrival:
Condition of Well: Good condition
Well Locked at Departure:
Well Completion: Stick-up
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30108678	**Well ID**	MW-2			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	62.1 degrees F and Mostly Clear.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	7.28	**Total Depth (ft-bmp)**	20.2	**Water Column (ft)**	12.92	**Gallons in Well**	2.10
Purge Start	12:00	**Pump Intake (ft-bmp)**	17	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End	12:55	**Volumes Purged**	2.26	**Sample ID**	MW-2	**Sampled by**	Madelyn Hank
Sample Time	12:50	**Gallons Purged**	4.75	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:00	0	0	--	7.28	0.00	6.96	0.492	123	7.75	19.99	-109	--	--
12:05	5	5	--	7.28	0.50	7.46	0.493	58.4	1.61	17.09	-202	--	--
12:10	5	10	--	7.51	1.25	8.45	0.472	41.7	1.44	17.91	-259	--	--
12:15	5	15	--	7.51	1.75	8.59	0.471	36.2	1.39	17.91	-278	--	--
12:20	5	20	--	7.51	2.25	8.57	0.471	39.8	1.35	18.05	-295	--	--
12:25	5	25	--	7.51	2.50	8.51	0.47	8.3	1.32	19.04	-293	--	--
12:30	5	30	--	7.51	2.75	8.33	0.484	6.2	1.36	18.23	-293	--	--
12:35	5	35	--	7.58	3.50	8.72	0.47	6.1	1.33	17.78	-309	--	--
12:40	5	40	--	7.55	4.00	8.56	0.472	5.3	1.32	17.31	-310	--	--
12:45	5	45	--	7.60	4.75	8.7	0.471	6	1.31	17.84	-316		

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
VOCs	250 mL Amber	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30108678	**Well ID**	MW-3			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	55.0 degrees F and Mostly Clear. The wind is blowing at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.92	**Total Depth (ft-bmp)**	23.67	**Water Column (ft)**	17.75	**Gallons in Well**	2.88
Purge Start	09:20	**Pump Intake (ft-bmp)**	20	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End	10:05	**Volumes Purged**	1.65	**Sample ID**	MW-3	**Sampled by**	Madelyn Hank
Sample Time	10:00	**Gallons Purged**	4.75	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:20	0	0	200	5.92	0.00	6.25	1.77	178	2.45	15.14	-30	--	--
09:25	5	5	0.25	6.78	1.25	6.36	1.69	95.1	1.98	15.58	-21	--	--
09:30	5	10	0.15	6.78	2.00	7.16	0.987	44.8	2.02	15.79	-21	--	--
09:35	5	15	--	6.96	2.50	9.55	0.825	43.7	2.21	15.92	-2	--	--
09:40	5	20	--	6.96	3.25	10.55	0.889	70.3	2.07	15.98	-46	--	--
09:45	5	25	--	6.96	3.75	10.91	1.07	85.7	1.9	16.11	-61	--	--
09:50	5	30	--	6.96	4.50	10.99	1.11	86.7	1.82	16.19	-62	--	--
09:56	6	36	--	6.96	4.75	11.05	1.18	84.2	1.74	16.36	-64	Yellow	

Constituent Sampled	Container	Number	Preservative
Dissolved Metals	250 mL Plastic	1	HNO3
VOCs	250 mL Amber	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:
Condition of Well: Good condition
Well Completion: Stick-up
Well Locked at Arrival:
Well Locked at Departure:
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30108678	**Well ID**	MW-4			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	62.1 degrees F and Mostly Clear.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	10.21	**Total Depth (ft-bmp)**	21.55	**Water Column (ft)**	11.34	**Gallons in Well**	1.84
Purge Start		**Pump Intake (ft-bmp)**	18	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End		**Volumes Purged**	3.80	**Sample ID**	MW-4	**Sampled by**	Matt Hilinski
Sample Time	13:10	**Gallons Purged**	7.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:27	0	0	--	10.21	--	12.51	6.1	1000	5.08	15.68	-117	--	--
12:33	6	6	--	10.21	--	12.5	5.86	297	2.96	15.58	-125	--	--
12:37	4	10	--	10.21	--	12.51	5.88	223	2.81	15.55	-130	--	--
12:42	5	15	--	10.21	--	12.51	5.9	191	2.76	15.65	-135	--	--
12:48	6	21	--	10.21	--	12.51	5.92	164	2.7	15.67	-138	--	--
12:53	5	26	--	10.21	--	12.51	5.94	91.8	2.72	15.56	-140	--	--
12:58	5	31	--	10.21	--	12.49	5.95	97.2	2.68	15.59	-139	--	--
13:05	7	38	--	10.21	--	12.49	5.97	97.3	2.71	15.52	-139	Yellow	None

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
VOCs	40 mL Glass	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:		Well Locked at Arrival:	no
Condition of Well:	Missing lock	Well Locked at Departure:	no
Well Completion:	Stick-up	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

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Project Number	30108678	**Well ID**	MW-5			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	59.0 degrees F and Mostly Clear. The wind is blowing N/NW at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	12.02	**Total Depth (ft-bmp)**	21.35	**Water Column (ft)**	9.33	**Gallons in Well**	1.52
Purge Start	10:03	**Pump Intake (ft-bmp)**	18	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End		**Volumes Purged**	3.29	**Sample ID**	MW-5	**Sampled by**	Matt Hilinski
Sample Time	10:50	**Gallons Purged**	5.00	**Replicate/ Code No.**	DUP-1	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:04	0	0	--	12.02	--	6.18	0.381	1000	2.33	17.61	-14	--	--
10:09	5	5	--	12.09	--	6	0.369	1000	1.34	17.35	16	--	--
10:14	5	10	--	12.10	--	5.9	0.347	800	0.77	17.19	31	--	--
10:19	5	15	--	12.10	--	5.87	0.339	480	0.71	17.29	40	--	--
10:24	5	20	--	12.10	--	5.85	0.335	349	0.68	17.3	49	--	--
10:29	5	25	--	12.10	--	5.82	0.327	247	0.63	16.99	55	--	--
10:35	6	31	--	12.10	--	5.83	0.33	25.4	0.63	16.94	64	--	--
10:39	4	35	--	12.10	--	5.82	0.33	25.2	0.61	16.9	63	--	--
10:45	6	41	--	12.10	--	5.8	0.331	25.1	0.6	17.12	68		

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
VOCs	40 mL Glass	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:		Well Locked at Arrival:	no
Condition of Well:	Missing lock	Well Locked at Departure:	no
Well Completion:	Stick-up	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30108678	**Well ID**	MW-7			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	62.1 degrees F and Mostly Clear.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.11	**Total Depth (ft-bmp)**	17.93	**Water Column (ft)**	12.82	**Gallons in Well**	2.08
Purge Start	13:10	**Pump Intake (ft-bmp)**	15	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End	14:21	**Volumes Purged**	2.64	**Sample ID**	MW-7	**Sampled by**	Madelyn Hank
Sample Time	14:15	**Gallons Purged**	5.50	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
13:10	0	0	--	5.11	0.00	11.2	2.19	538	3.39	19.58	-243	--	--
13:14	4	4	--	5.50	1.00	11.41	2.24	412	1.81	19.28	-267	--	--
13:20	6	10	--	5.54	1.50	11.49	2.21	123	1.57	19.29	-271	--	--
13:25	5	15	--	5.59	2.00	11.51	2.12	46.9	1.51	19.28	-272	--	--
13:30	5	20	--	5.59	2.75	11.54	2.03	32.5	1.48	19.32	-270	--	--
13:35	5	25	--	5.59	3.00	11.56	2.03	27.9	1.45	19.52	-269	--	--
13:40	5	30	--	5.62	3.50	11.56	1.99	25.6	1.47	19.25	-262	--	--
13:45	5	35	--	5.62	4.65	11.58	1.96	23.4	1.44	19.27	-265	--	--
13:51	6	41	--	5.62	4.25	11.64	1.97	25.2	1.43	19.4	-285	--	--
13:56	5	46	--	5.62	4.50	11.98	1.96	17.6	1.43	19.44	-284	--	--
14:00	4	50	--	5.63	5.00	11.97	1.94	15.7	1.43	19.38	-282	--	--
14:05	5	55	--	5.63	5.50	11.91	1.94	15.4	1.42	19.49	-276	--	--
14:11	6	61	--	5.63	5.75	11.91	1.94	15.6	1.41	19.59	-274		

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
VOCs	250 mL Amber	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well: Good condition

Well Locked at Departure:

Well Completion: Stick-up

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

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Project Number	30108678	**Well ID**	MW-8			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	55.0 degrees F and Mostly Clear. The wind is blowing at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	4.55	**Total Depth (ft-bmp)**	19.7	**Water Column (ft)**	15.15	**Gallons in Well**	2.46
Purge Start		**Pump Intake (ft-bmp)**	15	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End		**Volumes Purged**	2.03	**Sample ID**	MW-8	**Sampled by**	Matt Hilinski
Sample Time	09:50	**Gallons Purged**	5.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:15	0	0	--	4.55	--	6.34	0.525	101	2.38	19.43	-4	--	--
09:20	5	5	--	4.55	--	6.46	0.517	100	1.17	20.06	-54	--	--
09:24	4	9	--	4.55	--	6.48	0.522	100	0.97	19.97	-63	--	--
09:29	5	14	--	4.55	--	6.48	0.512	100	0.82	20.76	-70	--	--
09:35	6	20	--	4.55	--	6.49	0.507	100	0.85	21.31	-76	--	--
09:40	5	25	--	4.55	--	6.49	0.509	100	0.82	21.4	-70	--	--
09:44	4	29	--	4.55	--	6.49	0.506	101	0.8	21.5	-70		

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
VOCs	40 mL Glass	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:
Condition of Well: Good condition
Well Completion: Flush mount
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30108678	**Well ID**	MW-9			**Date**	10/27/2022
Project Name/Location	Alliance S 51st Street DD		**Weather(°F)**	62.1 degrees F and Mostly Clear.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	9.90	**Total Depth (ft-bmp)**	21.7	**Water Column (ft)**	11.80	**Gallons in Well**	1.92
Purge Start	11:15	**Pump Intake (ft-bmp)**	18	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End		**Volumes Purged**	3.65	**Sample ID**	MW-9	**Sampled by**	Matt Hilinski
Sample Time	12:00	**Gallons Purged**	7.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:16	0	0	--	9.90	--	12.41	-263	1000	8.11	16.05	-264	--	--
11:20	4	4	--	9.90	--	12.55	7.98	1000	7.08	16.17	-241	--	--
11:24	4	8	--	9.90	--	12.58	7.92	1000	7.17	16.17	-214	--	--
11:29	5	13	--	9.90	--	12.6	7.9	1000	6.67	16.13	-193	--	--
11:35	6	19	--	9.90	--	12.6	7.87	1000	6.75	16.28	-178	--	--
11:40	5	24	--	9.90	--	12.62	7.85	1000	6.49	15.97	-168	--	--
11:46	6	30	--	9.90	--	12.62	7.81	1000	6.47	15.94	-160	--	--
11:50	4	34	--	9.90	--	12.62	7.83	1000	6.4	16.01	-156	--	--
11:55	5	39	--	9.90	--	12.63	7.82	1000	6.43	16	-155	Cloudy slight yellow	None

Constituent Sampled	Container	Number	Preservative
Dissolved lead	250 mL Plastic	1	HNO3
Dissolved Lead 0.2 Filter	250 mL Plastic	1	HNO3
VOCs	40 mL Glass	3	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:		Well Locked at Arrival:	no
Condition of Well:	Missing lock	Well Locked at Departure:	no
Well Completion:	Flush mount	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Location ID:	MW-3	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy 32			**Field Technician:**		Thomas Harman	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	3.85	**Total Depth (ft-bmp):**	23.7	**Water Column(ft):**	19.53	**Gallons in Well:**	3.17
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	20	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	08:43	**Total Volume Purged (gallons):**	3	**Sample ID:**	MW-3	**Sample Time:**	09:50
Purge End Time:	09:45	**Well Volumes Purged (total):**	0.95	**Replicate / Code No.:**	Duplicate / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / J0M484WD
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
08:45	0	5.1	6.55	0.713	137	7.55	9.06	188	Yellow	No Odor
08:50	5	4.81	6.86	0.607	60.8	8.34	9.16	185	Yellow	No Odor
08:55	10	4.8	7.11	0.605	33.1	7.43	9.09	182	Yellow	No Odor
09:00	15	4.8	7.3	0.614	16.2	6.42	9	178	Yellow	No Odor
09:05	20	4.8	7.46	0.622	13.2	5.88	9.02	175	Yellow	No Odor
09:10	25	4.8	7.78	0.624	10.1	5.48	8.99	169	Yellow	No Odor
09:15	30	4.8	8.07	0.625	7.1	5.24	8.92	162	Yellow	No Odor
09:20	35	4.8	8.27	0.63	5.8	4.88	8.92	156	Yellow	No Odor
09:25	40	4.8	8.45	0.632	4.4	4.6	8.96	148	Yellow	No Odor
09:30	45	4.8	8.59	0.634	3.4	4.4	8.91	140	Yellow	No Odor
09:35	50	4.8	8.63	0.635	2.7	4.36	8.88	137	Yellow	No Odor
09:40	55	4.8	8.67	0.637	2.6	4.14	8.88	132	Yellow	No Odor
09:44	59	4.8	8.7	0.635	2.5	4.22	8.8	129	Yellow	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-9	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	35 cloudy			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	7.8	**Total Depth (ft-bmp):**	21.7	**Water Column(ft):**	13.9	**Gallons in Well:**	2.26
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	19	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	10:45	**Total Volume Purged (gallons):**	2.1	**Sample ID:**	MW-9	**Sample Time:**	11:20
Purge End Time:	11:15	**Well Volumes Purged (total):**	0.93	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
								Color	Odor
10:45	0	7.8	11.94	8.91	8.72	11.37	-58	Clear	No Odor
10:51	6	8	12.5	8.98	8.28	12.76	-96	Clear	No Odor
10:57	12	8.16	12.5	8.91	7.6	12.94	-96	Clear	No Odor
11:01	16	8.2	12.52	8.86	6.99	13.07	-96	Clear	No Odor
11:05	20	8.2	12.55	8.84	6.6	13.13	-96	Clear	No Odor
11:10	25	8.21	12.56	8.82	6.49	13.1	-94	Clear	No Odor
11:15	30	8.21	12.55	8.74	6.44	13.13	-95	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)
TEL	Amber Glass	2	None

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-4	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	35 cloudy			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	6.33	**Total Depth (ft-bmp):**	21.7	**Water Column(ft):**	15.37	**Gallons in Well:**	2.50
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	19	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	11:37	**Total Volume Purged (gallons):**	2.25	**Sample ID:**	MW-4	**Sample Time:**	12:15
Purge End Time:	12:10	**Well Volumes Purged (total):**	0.90	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
								Color	Odor
11:37	0	6.33	12.52	6.11	3.8	12.12	-66	Yellow	No Odor
11:40	3	6.4	12.51	6.01	3.02	11.37	-70	Clear	No Odor
11:44	7	6.45	12.53	6.11	2.96	10.49	-75	Clear	No Odor
11:50	13	6.47	12.57	6.08	3.33	10.11	-76	Clear	No Odor
11:55	18	6.5	12.47	5.97	3.18	11.98	-80	Clear	No Odor
12:02	25	6.5	12.48	6.1	3.23	10.79	-77	Clear	No Odor
12:05	28	6.5	12.52	6.1	3.02	11.37	-77	Clear	No Odor
12:10	33	6.5	12.5	6.17	2.87	10.32	-79	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-2	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy 39			**Field Technician:**		Thomas Harman	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	6.75	**Total Depth (ft-bmp):**	20.22	**Water Column(ft):**	13.46	**Gallons in Well:**	2.19
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	18	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	11:34	**Total Volume Purged (gallons):**	1.5	**Sample ID:**	MW-2	**Sample Time:**	12:10
Purge End Time:	12:05	**Well Volumes Purged (total):**	0.68	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / MUYC83T8
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
11:35	0	6.95	9.04	0.481	68.6	2.39	13.82	-134	Clear	No Odor
11:40	5	7.95	9.4	0.469	41.7	0.71	14.49	-189	Clear	No Odor
11:45	10	6.95	9.55	0.466	31.2	0.58	14.7	-208	Clear	No Odor
11:50	15	6.95	9.5	0.465	17.7	0.51	14.72	-211	Clear	No Odor
11:55	20	6.95	9.47	0.466	9.9	0.48	14.79	-216	Clear	No Odor
12:00	25	6.95	9.48	0.463	8.6	0.47	14.89	-222	Clear	No Odor
12:05	30	6.95	9.47	0.465	8	0.45	14.88	-224	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-7	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Light rain 39			**Field Technician:**		Thomas Harman	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	4.25	**Total Depth (ft-bmp):**	17.95	**Water Column(ft):**	13.56	**Gallons in Well:**	2.20
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	14	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	12:21	**Total Volume Purged (gallons):**	2.5	**Sample ID:**	MW-7	**Sample Time:**	13:15
Purge End Time:	13:11	**Well Volumes Purged (total):**	1.14	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / MUYC83T8
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
12:25	0	4.85	11.77	1.89	532	2.15	11.11	-172	Brown	No Odor
12:30	5	4.57	11.88	1.94	317	0.7	10.38	-194	Brown	No Odor
12:35	10	4.58	11.91	1.95	258	0.62	10.18	-206	Yellow	No Odor
12:40	15	4.59	11.91	1.95	192	0.58	10.08	-212	Yellow	No Odor
12:45	20	4.59	11.92	1.95	127	0.63	10.04	-215	Yellow	No Odor
12:50	25	4.59	11.92	1.94	79.6	0.65	10.11	-213	Yellow	No Odor
12:55	30	4.59	11.94	1.94	55.4	0.57	10.06	-212	Yellow	No Odor
13:00	35	4.59	11.95	1.96	62.4	0.79	9.97	-211	Yellow	No Odor
13:05	40	4.59	11.95	1.96	63.5	0.53	10	-210	Clear	No Odor
13:10	45	4.59	11.97	1.96	60	0.56	10.03	-211	Yellow	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

Comments: None

Well Information:

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-1	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy 37			**Field Technician:**		Thomas Harman	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	9.68	**Total Depth (ft-bmp):**	20.22	**Water Column(ft):**	10.54	**Gallons in Well:**	1.71
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	20	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	10:44	**Total Volume Purged (gallons):**	1.5	**Sample ID:**	MW-1	**Sample Time:**	11:20
Purge End Time:	11:16	**Well Volumes Purged (total):**	0.88	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / MUYC83T8
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
10:45	0	9.76	6.98	0.919	624	2.86	11.14	-16	Brown	No Odor
10:50	5	9.71	7.05	0.917	342	1.71	11.68	-66	Brown	No Odor
10:55	10	9.71	7.03	0.911	163	1.35	11	-81	Brown	No Odor
11:00	15	9.71	7.04	0.905	71.2	1.22	10.93	-89	Clear	No Odor
11:05	20	9.71	7.05	0.901	53.3	1.17	11.06	-93	Clear	No Odor
11:10	25	9.71	7.05	0.9	44.7	1.15	11.05	-97	Clear	No Odor
11:15	30	9.71	7.06	0.899	35.8	1.13	10.91	-99	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-5	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	37 cloudy			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	11.6	**Total Depth (ft-bmp):**	21.45	**Water Column(ft):**	9.85	**Gallons in Well:**	1.60
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	19	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	09:53	**Total Volume Purged (gallons):**	1.15	**Sample ID:**	MW-5	**Sample Time:**	10:30
Purge End Time:	10:25	**Well Volumes Purged (total):**	0.72	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
09:54	0	11.6	8.18	0.389	658	1.15	13.36	69	Clear	No Odor
09:59	5	11.75	6.29	0.35	104	0.36	14.5	70	Clear	No Odor
10:04	10	11.76	5.94	0.35	51.8	0.31	14.88	97	Clear	No Odor
10:09	15	11.77	5.86	0.349	59.2	0.28	15.11	110	Clear	No Odor
10:15	21	11.77	5.83	0.349	42	0.27	15.2	117	Clear	No Odor
10:20	26	11.77	5.81	0.349	37.1	0.27	15.34	120	Clear	No Odor
10:24	30	11.77	5.81	0.349	36.9	0.25	15.32	120	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-8	**Date(s):**	2023-01-25	**Work Order(s):**		2022 01 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy 30			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	NA	**Total Depth (ft-bmp):**	19.7	**Water Column(ft):**	15.8	**Gallons in Well:**	2.57
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	18	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	08:00	**Total Volume Purged (gallons):**	1.25	**Sample ID:**	MW-8	**Sample Time:**	08:35
Purge End Time:	08:30	**Well Volumes Purged (total):**	0.49	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	,Horiba U-52 / MUYC83T8
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
08:00	0	3.9	6.46	0.538	1000	2.56	13.4	65	Clear	No Odor
08:04	4	4.05	6.54	0.534	610	2.13	12.68	30	Clear	No Odor
08:10	10	4.1	6.59	0.54	281	1.74	11.78	-2	Clear	No Odor
08:15	15	4.1	6.61	0.543	244	1.57	11.1	-11	Clear	No Odor
08:20	20	4.11	6.63	0.535	242	1.53	11.11	-12	Clear	No Odor
08:24	24	4.11	6.6	0.535	242	1.47	11.07	-3	Clear	No Odor
08:32	32	4.11	6.6	0.535	242	1.54	11.11	-3	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-3	**Date(s):**	2023-04-28	**Work Order(s):**		2022 04 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy			**Field Technician:**		NA	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	6.32	**Total Depth (ft-bmp):**	23.5	**Water Column(ft):**	17.18	**Gallons in Well:**	2.79
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	07:35	**Total Volume Purged (gallons):**	5	**Sample ID:**	NA	**Sample Time:**	NA
Purge End Time:	08:06	**Well Volumes Purged (total):**	1.79	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
07:35	0	200	mL/min	6.5	6.58	1.56	819	8.16	12.67	-83	Brown	No Odor
07:40	5	200	mL/min	6.5	6.57	1.55	387	1.54	12.67	-89	Clear	No Odor
07:46	11	200	mL/min	6.5	6.57	1.52	261	7.71	12.66	-89	Clear	No Odor
07:50	15	200	mL/min	6.5	6.62	0.994	44	7.3	12.5	59	Clear	No Odor
07:55	20	200	mL/min	6.5	7.54	0.687	4.4	6.67	12.75	31	Yellow	No Odor
08:00	25	200	mL/min	6.5	7.58	0.686	3.9	6.61	12.75	26	Clear	No Odor
08:05	30	200	mL/min	6.5	7.58	0.686	3.1	6.31	12.8	30	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

ARCADIS

Is Well in Good Condition?	NA
Well Inspection Comments:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-8	**Date(s):**	2023-04-28	**Work Order(s):**		2022 04 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	50 degrees cloudy			**Field Technician:**		Krista Hiller	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (m-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (m-bmp):	NA	**Total Depth (m-bmp):**	19.37	**Water Column (m):**	14.22	**Liters in Well:**	28.82
Depth to Product (m-bmp):	NA	**Pump Intake Depth(m-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	10:25	**Total Volume Purged (liters):**	1.75	**Sample ID:**	MW-8	**Sample Time:**	11:00
Purge End Time:	11:00	**Well Volumes Purged (total):**	0.06	**Replicate / Code No.:**	**Duplicate** / DUP-1	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:25	0	250	gpm	5.1	6.48	0.476	1000	3	15.57	-100	Clear	No Odor
10:30	5	250	gpm	5.4	6.56	0.475	1000	2.16	15.95	-134	Clear	No Odor
10:35	10	250	gpm	5.7	6.58	0.49	90.4	1.83	17.61	-140	Clear	No Odor
10:40	15	250	gpm	5.8	6.56	0.458	1000	1.58	17.4	-135	Clear	No Odor
10:45	20	250	gpm	5.8	6.5	0.474	1000	1.48	17.6	-133	Clear	No Odor
10:50	25	250	gpm	5.8	6.63	0.511	1000	1.46	17.38	-110	Clear	No Odor
10:55	30	250	gpm	5.9	6.62	0.512	1000	1.46	17.37	-104	Clear	No Odor
11:00	35	250	gpm	5.9	6.61	0.51	1000	1.53	17.11	-109	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Is Well in Good Condition?	good
Well Inspection Comments:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-5	**Date(s):**	2023-04-28	**Work Order(s):**		2022 04 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	50 degrees and cloudy			**Field Technician:**		Krista Hiller	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (m-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (m-bmp):	NA	**Total Depth (m-bmp):**	21.36	**Water Column (m):**	9.36	**Liters in Well:**	18.97
Depth to Product (m-bmp):	NA	**Pump Intake Depth(m-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	09:35	**Total Volume Purged (liters):**	1.5	**Sample ID:**	MW-5	**Sample Time:**	10:05
Purge End Time:	10:05	**Well Volumes Purged (total):**	0.08	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:35	0	250	mL/min	11.95	8.91	0.377	477	1.55	14.75	-11	Clear	No Odor
09:40	5	250	mL/min	12	8.26	0.376	404	1.08	14.7	3	Clear	No Odor
09:45	10	250	mL/min	12.2	6.05	0.377	42.3	0.69	15.05	-14	Clear	No Odor
09:50	15	250	mL/min	12.4	5.95	0.372	56.8	0.53	15.53	-17	Clear	No Odor
09:55	20	250	gpm	12.6	5.92	0.368	22.4	0.45	15.48	-9	Clear	No Odor
10:00	25	250	gpm	12.7	5.91	0.368	21.4	0.44	15.48	-7	Clear	No Odor
10:05	30	250	gpm	12.8	5.9	0.367	17.8	0.44	15.44	-3	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-7	**Date(s):**	2023-04-28	**Work Order(s):**		2022 04 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	49 degrees cloudy			**Field Technician:**		Krista Hiller	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (m-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (m-bmp):	NA	**Total Depth (m-bmp):**	17.92	**Water Column (m):**	12.42	**Liters in Well:**	25.17
Depth to Product (m-bmp):	NA	**Pump Intake Depth(m-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	08:50	**Total Volume Purged (liters):**	2	**Sample ID:**	Mw-7	**Sample Time:**	09:20
Purge End Time:	09:20	**Well Volumes Purged (total):**	0.08	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
08:50	0	250	mL/min	5.5	10.9	2.81	1000	1.89	14.1	-332	Clear	No Odor
08:55	5	250	mL/min	6.1	12.08	2.32	434	0.87	14.12	-330	Clear	No Odor
09:00	10	250	mL/min	6.3	12.1	2.18	129	0.65	14.27	-297	Clear	No Odor
09:05	15	250	mL/min	6.4	12.06	1.99	67.9	0.55	14.13	-310	Clear	No Odor
09:10	20	250	mL/min	6.5	12.06	2	61.3	0.54	14.2	-308	Clear	No Odor
09:15	25	250	mL/min	6.6	12.05	1.99	98	0.51	14.36	-316	Clear	No Odor
09:20	30	250	mL/min	7	12.02	1.98	75.4	0.5	14.3	-317	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-2	**Date(s):**	2023-04-28	**Work Order(s):**		2022 04 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	48 degrees F cloudy			**Field Technician:**		Krista Hiller	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (m-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (m-bmp):	NA	**Total Depth (m-bmp):**	20.19	**Water Column (m):**	12.68	**Liters in Well:**	25.70
Depth to Product (m-bmp):	NA	**Pump Intake Depth(m-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	07:40	**Total Volume Purged (liters):**	3	**Sample ID:**	Mw-2	**Sample Time:**	08:30
Purge End Time:	08:30	**Well Volumes Purged (total):**	0.12	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
07:40	0	250	mL/min	7.5	6.29	0.586	160	2.57	13.97	-201	Black	No Odor
07:45	5	250	mL/min	7.71	6.57	0.547	58.8	2.2	14.4	-241	Clear	No Odor
07:50	10	250	mL/min	7.73	6.98	0.532	44.1	3.36	14.3	-278	Clear	No Odor
07:55	15	250	mL/min	7.5	7.08	0.54	45	4.14	14.9	-280	Clear	No Odor
08:00	20	280	mL/min	7.5	8.51	0.53	64	6.47	15.27	-338	Clear	No Odor
08:05	25	250	mL/min	7.6	8.52	0.53	66	6.59	15.25	-339	Clear	No Odor
08:10	30	250	mL/min	7.7	8.39	0.535	72	6.16	15.29	-339	Clear	No Odor
08:15	35	250	mL/min	7.8	8.18	0.542	80.3	7.43	16.15	-332	Clear	No Odor
08:20	40	250	mL/min	7.9	8.85	0.524	139	7.73	15.32	-370	Clear	No Odor
08:25	45	250	mL/min	8	8.89	0.521	139	7.75	15.31	-369	Clear	No Odor
08:30	50	250	mL/min	8	8.82	0.523	147	8	15.33	-370	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Comments: None

Well Information:

Well Labeled Properly:	yes
Is Well in Good Condition?	good
Well Inspection Comments:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-9	**Date(s):**	2023-04-28	**Work Order(s):**		2022 04 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	9.99	**Total Depth (ft-bmp):**	21.5	**Water Column(ft):**	11.51	**Gallons in Well:**	1.87
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	09:51	**Total Volume Purged (gallons):**	6	**Sample ID:**	MW-9	**Sample Time:**	10:25
Purge End Time:	10:21	**Well Volumes Purged (total):**	3.21	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:51	0	200	mL/min	10.05	12.73	9.02	1000	8.04	13.14	-95	Clear	No Odor
09:55	4	200	mL/min	10.15	12.78	9.05	1000	6.48	13.26	-92	Clear	No Odor
10:01	10	200	mL/min	10.15	12.7	9.03	1000	6.16	13.34	-86	Clear	No Odor
10:05	14	200	mL/min	10.15	12.79	8.98	1000	5.72	13.45	-82	Clear	No Odor
10:10	19	200	mL/min	10.15	12.79	8.97	1000	5.65	13.46	-82	Clear	No Odor
10:15	24	200	mL/min	10.15	12.78	8.83	1000	4.83	13.61	-78	Clear	No Odor
10:19	28	200	mL/min	10.15	12.78	8.83	1000	4.79	13.61	-80	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-4	**Date(s):**	2023-04-28	**Work Order(s):**		2022 04 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	10.6	**Total Depth (ft-bmp):**	21	**Water Column(ft):**	10.4	**Gallons in Well:**	1.69
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	09:09	**Total Volume Purged (gallons):**	5	**Sample ID:**	MW-4	**Sample Time:**	09:45
Purge End Time:	09:42	**Well Volumes Purged (total):**	2.96	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:10	0	200	mL/min	10.75	9.82	5.52	1000	7.85	12.49	-198	Yellow	No Odor
09:15	5	200	mL/min	10.75	12.57	5.79	333	2.28	12.78	-148	Clear	No Odor
09:19	9	200	mL/min	10.75	12.56	5.8	286	2.29	12.79	-146	Clear	No Odor
09:25	15	200	mL/min	10.75	12.58	5.87	53	1.95	12.92	-131	Clear	No Odor
09:31	21	200	mL/min	10.75	12.59	5.88	44	1.94	12.93	-130	Clear	No Odor
09:34	24	200	mL/min	10.75	12.58	5.89	43	1.92	12.97	-127	Clear	No Odor
09:39	29	200	mL/min	10.75	12.59	5.94	43	1.89	12.99	-124	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-1	**Date(s):**	2023-04-28	**Work Order(s):**		2022 04 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	10.49	**Total Depth (ft-bmp):**	20.2	**Water Column(ft):**	9.71	**Gallons in Well:**	1.58
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	08:20	**Total Volume Purged (gallons):**	5	**Sample ID:**	Mw-1	**Sample Time:**	08:55
Purge End Time:	08:53	**Well Volumes Purged (total):**	3.16	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
08:20	0	200	mL/min	10.55	7	0.874	1000	20.29	12.44	-89	Clear	No Odor
08:24	4	200	mL/min	10.55	7.05	0.882	1000	9.76	12.45	-136	Clear	No Odor
08:30	10	200	mL/min	10.6	7.14	0.847	58.2	7.58	12.15	-151	Clear	No Odor
08:35	15	200	mL/min	10.6	7.15	0.846	20.5	7.15	12.09	-156	Clear	No Odor
08:40	20	200	mL/min	10.6	7.16	0.844	8.8	6.43	12.04	-161	Clear	No Odor
08:44	24	200	mL/min	10.6	7.17	0.843	5	6.83	12.02	-163	Clear	No Odor
08:50	30	200	mL/min	10.6	7.15	0.843	4.3	5.31	12.03	-164	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-3	**Date(s):**	2023-04-28	**Work Order(s):**		2022 04 GW Sampling	
Facility:	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**		Full Site	
Weather(°F):	Cloudy			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	6.32	**Total Depth (ft-bmp):**	23.5	**Water Column(ft):**	17.18	**Gallons in Well:**	2.79
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	07:35	**Total Volume Purged (gallons):**	5	**Sample ID:**	Mw-3	**Sample Time:**	08:10
Purge End Time:	08:06	**Well Volumes Purged (total):**	1.79	**Replicate / Code No.:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
07:35	0	200	mL/min	6.5	6.58	1.56	819	8.16	12.67	-83	Brown	No Odor
07:40	5	200	mL/min	6.5	6.57	1.55	387	1.54	12.67	-89	Clear	No Odor
07:46	11	200	mL/min	6.5	6.57	1.52	261	7.71	12.66	-89	Clear	No Odor
07:50	15	200	mL/min	6.5	6.62	0.994	44	7.3	12.5	59	Clear	No Odor
07:55	20	200	mL/min	6.5	7.54	0.687	4.4	6.67	12.75	31	Yellow	No Odor
08:00	25	200	mL/min	6.5	7.58	0.686	3.9	6.61	12.75	26	Clear	No Odor
08:05	30	200	mL/min	6.5	7.58	0.686	3.1	6.31	12.8	30	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

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Is Well in Good Condition?	NA
Well Inspection Comments:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-7	**Date(s):**	2023-07-27	**Work Order(s):**		2023 07 GW Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Sunny 90			**Field Technician:**		Krista Hiller	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (m-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (m-bmp):	3.39	**Total Depth (m-bmp):**	17.9	**Water Column(m):**	14.51	**Liters in Well:**	29.41
Depth to Product (m-bmp):	NA	**Pump Intake Depth(m-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	09:13	**Total Volume Purged (liters):**	1.25	**Sample ID:**	MW-7	**Sample Time:**	09:50
Purge End Time:	09:45	**Well Volumes Purged (total):**	0.04	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:15	0	200	mL/min	3.39	10.87	1.11	898	2.73	17.86	-188	Reddish Brown	No Odor
09:20	5	250	mL/min	3.43	11.35	1.2	14.5	1.95	19.71	-189	Yellow	No Odor
09:25	10	200	mL/min	3.49	11.48	1.33	2.6	1.65	19.23	-234	Clear	No Odor
09:30	15	200	mL/min	3.52	11.52	1.35	3.2	1.63	19.23	-239	Clear	No Odor
09:35	20	200	mL/min	3.57	11.56	1.37	3.2	1.59	19.09	-264	Clear	No Odor
09:40	25	200	mL/min	3.6	11.62	1.38	3.1	1.49	19.11	-266	Clear	No Odor
09:45	30	200	mL/min	3.63	11.65	1.38	3	1.47	19.14	-268	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: no

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-3	**Date(s):**	2023-07-17	**Work Order(s):**		2023 07 GW Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Sunny 90			**Field Technician:**		Krista Hiller	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (m-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (m-bmp):	4.3	**Total Depth (m-bmp):**	23.5	**Water Column(m):**	19.2	**Liters in Well:**	38.92
Depth to Product (m-bmp):	NA	**Pump Intake Depth(m-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	11:43	**Total Volume Purged (liters):**	1.25	**Sample ID:**	Mw-3	**Sample Time:**	12:20
Purge End Time:	12:15	**Well Volumes Purged (total):**	0.03	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
11:45	0	250	mL/min	4.3	7.74	0.931	132	0	16.41	25	Yellow	No Odor
11:50	5	250	mL/min	4.5	9.28	0.664	0	0.49	21.71	-30	Yellow	No Odor
11:55	10	250	mL/min	4.5	9.46	0.662	0	0.34	21.62	-37	Yellow	No Odor
12:00	15	250	mL/min	4.5	10.54	0.73	0	0	21.27	-95	Yellow	No Odor
12:05	20	250	mL/min	4.5	10.88	0.805	0	0	21.32	-124	Yellow	No Odor
12:10	25	250	mL/min	4.55	10.88	0.805	0	0	21.33	-126	Yellow	No Odor
12:15	30	250	mL/min	4.55	10.89	0.807	0	0	21.33	-129	Yellow	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-8	**Date(s):**	2023-07-17	**Work Order(s):**		2023 07 GW Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Sunny 90			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	3.25	**Total Depth (ft-bmp):**	19	**Water Column(ft):**	15.75	**Gallons in Well:**	2.56
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	11:38	**Total Volume Purged (gallons):**	1.7	**Sample ID:**	MW-8	**Sample Time:**	12:15
Purge End Time:	12:13	**Well Volumes Purged (total):**	0.66	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
11:40	0	200	mL/min	3.5	7.24	0.626	1000	1.75	26	-105	Clear	No Odor
11:45	5	200	mL/min	3.45	6.98	0.637	373	0.32	27.72	-114	Clear	No Odor
11:50	10	200	mL/min	3.45	6.96	0.637	379	0.3	28.66	-114	Clear	No Odor
11:55	15	200	mL/min	3.45	6.96	0.64	10.1	0	27	-120	Clear	No Odor
12:01	21	200	mL/min	3.45	6.96	0.64	10.2	0	27.02	-120	Clear	No Odor
12:05	25	200	mL/min	3.45	6.96	0.64	10.1	0	27.2	-121	Clear	No Odor
12:10	30	200	mL/min	3.45	6.96	0.64	10.1	0	27.2	-121	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-5	**Date(s):**	2023-07-17	**Work Order(s):**		2023 07 GW Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	85 Sunny			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	11.38	**Total Depth (ft-bmp):**	21.4	**Water Column(ft):**	10.02	**Gallons in Well:**	1.63
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	10:40	**Total Volume Purged (gallons):**	1.7	**Sample ID:**	MW-5	**Sample Time:**	11:15
Purge End Time:	11:12	**Well Volumes Purged (total):**	1.04	**Replicate Type / Replicate ID:**	**Duplicate** / DUP-1	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:40	0	200	mL/min	11.45	9.73	0.515	1000	0.07	20.67	-148	Clear	No Odor
10:45	5	200	mL/min	11.45	8.8	0.426	1000	0	18.19	-30	Clear	No Odor
10:50	10	200	mL/min	11.4	6.71	0.388	45.9	0	19.38	66	Clear	No Odor
10:55	15	200	mL/min	11.45	6.69	0.387	44.3	0	19.02	69	Clear	No Odor
11:00	20	200	mL/min	11.45	6.7	0.387	4.1	0	19.01	69	Clear	No Odor
11:05	25	200	mL/min	11.45	6.7	0.387	4.1	0	19.1	69	Clear	No Odor
11:10	30	200	mL/min	11.45	6.7	0.387	4.1	0	19.14	69	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-2	**Date(s):**	2023-07-17	**Work Order(s):**		2023 07 GW Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Sunny 90			**Field Technician:**		Krista Hiller	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (m-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (m-bmp):	6.78	**Total Depth (m-bmp):**	20.25	**Water Column(m):**	13.47	**Liters in Well:**	27.30
Depth to Product (m-bmp):	NA	**Pump Intake Depth(m-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	10:10	**Total Volume Purged (liters):**	1.25	**Sample ID:**	Mw-2	**Sample Time:**	10:50
Purge End Time:	10:45	**Well Volumes Purged (total):**	0.05	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:15	0	250	mL/min	6.7	8.6	0.416	34.5	0.59	15.72	-134	Clear	No Odor
10:20	5	250	mL/min	6.85	9.35	0.431	0.1	0	15.08	-194	Clear	Moderate
10:25	10	250	mL/min	6.9	9.39	0.432	0.1	0	15.46	-212	Clear	No Odor
10:30	15	250	mL/min	6.95	9.41	0.432	0.1	0	15.49	-221	Clear	No Odor
10:35	20	250	mL/min	6.95	9.41	0.431	0.1	0	15.58	-227	Clear	No Odor
10:40	25	250	mL/min	6.95	9.41	0.432	0.1	0	15.57	-228	Clear	No Odor
10:45	30	250	mL/min	6.98	9.41	0.431	0.1	0	15.57	-230	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-9	**Date(s):**	2023-07-17	**Work Order(s):**		2023 07 GW Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Sunny 80			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	8.38	**Total Depth (ft-bmp):**	21.4	**Water Column(ft):**	13.02	**Gallons in Well:**	2.12
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	09:56	**Total Volume Purged (gallons):**	1.6	**Sample ID:**	MW-9	**Sample Time:**	10:30
Purge End Time:	10:26	**Well Volumes Purged (total):**	0.75	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:56	0	200	mL/min	8.4	13.15	8.56	1000	3.78	17.44	-71	Clear	No Odor
10:00	4	200	mL/min	8.4	13.21	8.75	1000	3.41	15.8	-76	Clear	No Odor
10:05	9	200	mL/min	8.4	13.24	8.75	0	3.11	5.44	-75	Clear	No Odor
10:11	15	200	mL/min	8.4	13.2	8.6	1000	2.78	16.44	-76	Clear	No Odor
10:17	21	200	mL/min	8.4	13.24	8.52	1000	2.48	16	-77	Clear	No Odor
10:19	23	200	mL/min	8.4	13.22	8.49	1000	2.41	16.08	-77	Clear	No Odor
10:25	29	200	mL/min	8.4	13.2	8.4	1000	2.23	16.81	-77	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-1	**Date(s):**	2023-07-17	**Work Order(s):**			2023 07 GW Sampling
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Sunny 90			**Field Technician:**		Krista Hiller	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (m-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (m-bmp):	9.7	**Total Depth (m-bmp):**	20.15	**Water Column(m):**	10.45	**Liters in Well:**	21.18
Depth to Product (m-bmp):	NA	**Pump Intake Depth(m-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	09:12	**Total Volume Purged (liters):**	1.25	**Sample ID:**	Mw-1	**Sample Time:**	09:50
Purge End Time:	09:46	**Well Volumes Purged (total):**	0.06	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:15	0	250	mL/min	9.7	6.87	0.762	1000	2.01	15.7	26	Clear	Moderate
09:20	5	250	mL/min	9.75	6.73	0.689	2.4	0.63	15.83	-70	Clear	No Odor
09:25	10	250	mL/min	9.8	6.82	0.686	0	0.5	15.83	-77	Clear	No Odor
09:30	15	250	mL/min	9.9	6.88	0.684	0	0.42	15.84	-83	Clear	No Odor
09:35	20	250	mL/min	9.9	6.95	0.683	0.1	0.32	15.87	-89	Clear	No Odor
09:40	25	250	mL/min	9.93	6.96	0.683	0.1	0.3	15.96	-90	Clear	No Odor
09:45	30	250	mL/min	9.95	6.96	0.683	0.1	0.3	15.96	-92	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-4	**Date(s):**	2023-07-17	**Work Order(s):**		2023 07 GW Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Sunny 80			**Field Technician:**		Matt Hilinski	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	6.07	**Total Depth (ft-bmp):**	21.65	**Water Column(ft):**	15.58	**Gallons in Well:**	2.53
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	09:07	**Total Volume Purged (gallons):**	2	**Sample ID:**	MW-4	**Sample Time:**	09:50
Purge End Time:	09:45	**Well Volumes Purged (total):**	0.79	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:10	0	200	mL/min	6.75	12.73	6.01	1000	11.47	17.88	-50	Clear	No Odor
09:15	5	200	mL/min	6.75	12.9	6.35	12.2	5.48	16.39	-67	Clear	No Odor
09:20	10	200	mL/min	6.76	12.89	6.34	12.4	5.36	16.79	-68	Clear	No Odor
09:25	15	200	mL/min	6.75	12.88	6.33	12.3	5.3	17.03	-69	Clear	No Odor
09:29	19	200	mL/min	6.76	12.92	6.35	11.3	5.05	17.15	-65	Yellow	No Odor
09:36	26	200	mL/min	6.76	12.99	6.36	8.9	4.71	15.59	-73	Clear	No Odor
09:39	29	200	mL/min	6.76	13.01	6.37	7.5	4.45	15.33	-73	Clear	No Odor
09:44	34	200	mL/min	6.76	13.01	6.35	8.5	4.07	15.55	-72	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
VOCs (SW8260)	Amber Glass	3	HCl
Metals (SW6020)	HDPE Plastic	1	(HNO3)

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: 30055709
Date: 10/3/2023
Sampling Time: 10:10
Weather: 60 + SUN

Site: Alliance 51st
Sampled By: TD
Recorded By: TD
Duplicate/QA/QC: —

Well ID: MW-1

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC
Casing Diameter: 2 in
Total Depth: 21.85
Depth to Water: 9.90
Water Column: 11.95
Gallons/Foot: 0.16
Gallons in Well: 1.912

Purge Method: (circle one) Submersible Centrifugal Bladder Bailer Peristaltic
Screen Interval: From: 16 To: 20
Sampling Interval: 20
Volumes to be Purged:
Total Volume Purged:
Pump On: 09:25 Off: 10:15
PID Reading: 0.0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
09:30	5	250	0.50	9.98	6.69	0.917	7.61	1.27	18.72	-105	
09:35	10		1.00	10.00	6.69	0.917	7.61	1.27	18.72	-105	
09:40	15		1.50	10.00	6.81	0.874	62.3	0.93	19.03	-115	
09:45	20		2.00	10.00	6.85	0.866	18.5	0.80	19.51	-117	
09:50	25		3.00	10.00	6.86	0.864	9.4	0.72	19.62	-119	
09:55	30		4.00	10.00	6.86	0.863	5.8	0.66	19.74	-119	
10:00	35		5.00	10.00	6.84	0.861	4.7	0.61	19.67	-119	
10:05	40		5.75	10.00	6.84	0.861	4.9	0.60	19.74	-120	

Observations During Sampling

Well Condition: good
Color: brown
Odor: gasoline

Purge Water Disposal:
Turbidity(qualitative):
Other (OVA, HNU,etc.):

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	Alpha	3 x 40ml HCL
~~1,4 Dioxane~~	~~Alpha~~	~~2x 250ml amber~~
TAL Metals (~~total~~/dissolved)	Alpha	1 x 250 HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: ~~30055701~~
Date: 10/3/23
Sampling Time: 10:10
Weather: Sunny 70s

Site: Alliance 51st St ~~PMC Durabond~~
Sampled By: MH
Recorded By: MH
Duplicate/QA/QC: N

Well ID: MW-2

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		DEBN9VX0

Purging Information

Casing Material: PVC
Casing Diameter: 2in
Total Depth: 20.20
Depth to Water: 6.74
Water Column: 13.46
Gallons/Foot: ~~7.1536~~ 0.16
Gallons in Well: 2.1536

Purge Method:(circle one) (Submersible) Centrifugal Bladder Bailer Peristaltic
Screen Interval: From: 4 To: 15
Sampling Interval:
Volumes to be Purged:
Total Volume Purged: 3.00
Pump On: 0935 Off: 1005
PID Reading: 0.0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
0935	-	~~0.1~~	←	6.74	6.46	0.526	29.7	2.13	17.03	-242	
0940	5	0.1	0.50	6.80	9.19	0.520	7.4	2.07	16.31	-299	
0945	10	0.1	1.00	6.52	9.31	0.510	3.4	0.93	16.21	-151	
0950	15	0.1	1.50	6.95	9.31	0.518	2.9	0.89	16.32	-151	
0955	20	0.1	2.00	7.15	9.29	0.504	2.8	0.73	16.43	-151	
1000	25	0.1	2.50	7.23	9.19	0.509	2.5	0.70	17.90	-145	
1005	30	0.1	3.00	7.56	9.18	0.506	2.9	0.68	17.95	-145	

Observations During Sampling

Well Condition: Good
Color: No
Odor: No

Purge Water Disposal:
Turbidity(qualitative): low
Other (OVA, HNU,etc.): -

Constituents Sampled	Container Description From Lab X ARCADIS	Preservative
VOCs	Alpha	3 x 40ml HCL
~~1,4 Dioxane~~	~~Alpha~~	2x 250mL amber
TAL ~~Metals (total/dissolved)~~	Alpha	2 x 250 HNO3

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Alliance 51st St.

Project Number: ~~30055709~~ Site: PMC Durabond Well ID: MW-3

Date: 10/3/23 Sampled By: MH

Sampling Time: 11:40 Recorded By: MH

Weather: sunny 70s Duplicate/QA/QC: —

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		OEBN9UXO

Purging Information

Casing Material: PVC

Casing Diameter: 2 inch

Total Depth: 23.51

Depth to Water: 4.56

Water Column: 18.95

Gallons/Foot: 0.16

Gallons in Well: 3.032

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: ____ To: ____

Sampling Interval: ~20

Volumes to be Purged: ____

Total Volume Purged: 4.00

Pump On: 1055 Off: ____

PID Reading: 0.0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1055	—	0.10	—	4.56	6.91	1.25	104	2.97	18.88	-38	
1100	5	0.10	0.50	5.00	7.19	0.945	30.6	3.34	19.60	-23	
1105	10	0.10	1.00	5.31	7.20	0.957	28.3	5.17	19.39	-25	
1110	15	0.10	1.50	5.62	9.11	0.888	14.3	4.65	19.81	-16	
1115	20	0.10	2.00	5.77	9.14	0.883	4.4	4.29	20.00	-16	
1120	25	0.10	2.50	5.82	9.06	0.880	4.3	4.34	20.84	-14	
1125	30	0.10	3.00	5.97	9.59	0.835	2.3	3.53	19.84	-36	
11:30	35	0.10	3.50	5.45	9.62	0.821	1.7	3.40	19.47	-36	
11:35	40	0.10	4.00	5.98	9.69	0.811	1.8	3.22	19.43	-41	

Observations During Sampling

Well Condition: Good

Color: Yellow

Odor: None

Purge Water Disposal: ground

Turbidity(qualitative): ____

Other (OVA, HNU,etc.): ____

Constituents Sampled	Container Description From Lab ____ ARCADIS ____	Preservative
VOCs	Alpha	3 x 40ml HCL
~~1,4 Dioxane~~	~~Alpha~~	2x ~~250ml~~ amber
TAL Metals (~~total~~/dissolved)	Alpha	1 x 250 HNO3

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ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30055709	Site:	PMC Durabond	**Well ID:**	MW-4
Date:	12/3/24	Sampled By:	MH		
Sampling Time:	1440	Recorded By:	MH		
Weather:	Sunny 60's	Duplicate/QA/QC:	—		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		DEBMQWXO

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2 inch	Screen Interval: From:	To:
Total Depth:	21.02	Sampling Interval:	
Depth to Water:	10.40	Volumes to be Purged:	
Water Column:	10.62	Total Volume Purged:	3.00
Gallons/Foot:	0.16	Pump On:	1405 Off: 1435
Gallons in Well:	1.6992	PID Reading:	0.0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1405	-	0.1	-	10.40	12.29	5.94	18	4.15	21.05	-107	
1410	5	0.1	0.5	10.91	12.46	5.84	27.7	3.32	17.17	-94	
1415	10	0.1	1.00	10.46	12.47	5.44	23.6	3.14	16.45	-90	
1420	15	0.1	1.50	10.47	12.47	6.02	26.8	3.122	16.52	-88	
1425	20	0.1	2.00	11.01	12.48	6.00	18.1	2.93	16.86	-98	
1430	25	0.1	2.50	11.15	12.46	6.02	18.7	2.79	17.30	-97	
1435	30	0.1	3.00	11.18	12.46	6.09	18.1	2.72	17.31	-97	

Observations During Sampling

Well Condition:	~~good~~	Purge Water Disposal:	ground
Color:	Yellow	Turbidity(qualitative):	low
Odor:	no	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab ____ ARCADIS ____	Preservative
VOCs	Alpha	3 x 40ml HCL
~~1,4 Dioxane~~	~~Alpha~~	~~2x 250ml amber~~
TAL Metals (~~total~~/dissolved)	Alpha	1 x 250 HNO3

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ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Alliance 51st

Project Number: ~~30055709~~ Site: ~~PMC Duraband~~ **Well ID:** MW-5

Date: 10/3/2023 Sampled By: TD

Sampling Time: 13:25 Recorded By: TD

Weather: 80+Sun Duplicate/QA/QC:

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC

Casing Diameter: 2 in

Total Depth: 21.30

Depth to Water: 11.73

Water Column: 9.57

Gallons/Foot: 0.16

Gallons in Well: 1.5312

Purge Method:(circle one) (Submersible) Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: To:

Sampling Interval:

Volumes to be Purged:

Total Volume Purged:

Pump On: 12:40 Off: 13:20

PID Reading: 0.0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
12:45	5	250	0.75	11.73	8.16	0.372	202	3.59	18.53	88	
12:50	10		1.50	12.82	6.75	0.366	112	1.62	17.49	111	
12:55	15		2.25	12.90	6.09	0.364	56.5	1.21	17.43	115	
13:00	20		3.00	12.60	5.93	0.360	15.2	1.03	17.85	118	
13:05	25		3.75	13.60	5.83	0.361	24.5	0.93	17.07	138	
13:10	30		4.50	13.70	5.78	0.360	15.0	0.82	17.14	129	
13:15	35		5.25	13.50	5.73	0.359	7.0	0.81	17.27	132	
13:20	40		6.00	13.23	5.71	0.359	6.4	0.78	17.31	133	

Observations During Sampling

Well Condition: open

Color: no

Odor: none

Purge Water Disposal:

Turbidity(qualitative): low

Other (OVA, HNU,etc.):

Constituents Sampled	Container Description From Lab ____ ARCADIS ____	Preservative
VOCs	Alpha	3 x 40ml HCL
~~1,4 Dioxane~~	~~Alpha~~	~~2x 250ml amber~~
TAL Metals (~~total~~/dissolved)	Alpha	2 x 250 HNO3

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ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Alliance Site

Project Number:	30055709	Site:	Well ID: MW-7
Date:	10/3/2023	Sampled By:	FB
Sampling Time:	11:45	Recorded By:	FB
Weather:	70 + Sun	Duplicate/QA/QC:	DUP-1

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2in	Screen Interval: From:	12 To: 15
Total Depth:	18.75	Sampling Interval:	15
Depth to Water:	4.95	Volumes to be Purged:	
Water Column:	13.80	Total Volume Purged:	
Gallons/Foot:	0.16	Pump On:	10:50 Off: 11:50
Gallons in Well:	2.208	PID Reading:	

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (umhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments
10:55	5	250	0.50	4.95	11.63	2.63	455	1.32	19.99	-222	Brown
11:00	10		1.00	4.65	11.66	2.34	132	0.97	20.29	-222	
11:05	15		1.50	4.55	11.66	2.26	71.3	1.00	20.35	-214	
11:10	20		2.00	4.55	11.65	2.20	42.5	0.88	20.38	-211	
11:15	25		2.50	4.60	11.63	2.12	28.4	0.88	20.39	-211	
11:20	30		3.00	4.78	11.62	2.09	24.5	0.85	20.39	-211	
11:25	35		3.50	4.80	11.62	2.07	20.5	0.81	20.31	-213	
11:30	40		4.50	4.66	11.62	2.06	18.2	0.77	20.34	-214	
11:35	45		5.00	4.80	11.61	2.02	15.0	0.75	20.34	-215	
11:40	50		5.50	4.80	11.58	1.50	13.8	0.70	20.16	-215	

Observations During Sampling

Well Condition:	Good	Purge Water Disposal:	
Color:	brown	Turbidity(qualitative):	low
Odor:	NA	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	Alpha	3 x 40ml HCL
~~1,4 Dioxane~~	Alpha	~~2x 250ml amber~~
TAL Metals (~~total~~/dissolved)	Alpha	1 x 250 HNO3

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ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Alliance 51st

Project Number: ~~30055709~~ Site: ~~PMC Durabond~~ **Well ID:** MW-8

Date: 10/3/23 Sampled By: TD

Sampling Time: 14:30 Recorded By: TD

Weather: 80 + SUN Duplicate/QA/QC: —

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: PVC

Casing Diameter: 2in

Total Depth: 15.25

Depth to Water: 3.30

Water Column: 11.95

Gallons/Foot: 0.16

Gallons in Well: 1.912

Purge Method: (circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: 6.50

Pump On: 13:50 Off: 14:75

PID Reading: _____

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (umhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
13:55	5	250	0.75	3.35	6.49	0.645	424	1.93	25.48	-87	
14:00	10		1.50	5.25	6.49	0.645	80.2	0.79	25.38	-82	
14:05	15		2.50	5.85	6.59	0.591	69.9	1.38	26.05	-84	
14:10	20		3.50	7.65	6.42	0.564	23.6	0.78	25.50	-78	
14:15	25		4.50	7.90	6.48	0.583	30.8	0.96	25.46	-69	
14:20	30		5.50	9.00	6.43	0.565	0.00	0.76	25.50	-60	
14:25	35		6.50	9.35	6.47	0.600	0.00	0.82	25.05	-53	
~~14:30~~											

Observations During Sampling

Well Condition: good

Color: NO

Odor: None

Purge Water Disposal: _____

Turbidity(qualitative): low

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description From Lab _____ ARCADIS _____	Preservative
VOCs	Alpha	3 x 40ml HCL
~~1,4 Dioxane~~	~~Alpha~~	~~2x 250ml amber~~
TAL Metals (~~total~~/dissolved)	Alpha	1 x 250 HNO3

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ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30055709	Site:	PMC Durabond	**Well ID:**	MW-9
Date:	10/3/23	Sampled By:	AJH		
Sampling Time:	1350	Recorded By:	AJH		
Weather:	sunny 70s	Duplicate/QA/QC:	N		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		DEBN9UXO

Purging Information

Casing Material:	PVC	Purge Method:(circle one)	Submersible / Centrifugal / Bladder / Bailer / Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	21.37	Sampling Interval:	
Depth to Water:	8.52	Volumes to be Purged:	
Water Column:	12.85	Total Volume Purged:	5.5
Gallons/Foot:	0.16	Pump On:	1245 Off: 1345
Gallons in Well:	2.056	PID Reading:	0.0

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1245	~	0.1	~	8.52	12.39	7.97	1000+	8.53	17.11	-149	
1250	5	0.1	0.55	9.05	12.51	8.01	1000+	6.04	18.64	-129	
1255	10	0.1	1.05	9.07	12.59	8.10	1000+	5.19	16.70	-113	
1300	15	0.1	1.00	9.07	12.59	8.04	1000+	4.95	17.05	-113	
1305	20	0.1	1.50	9.11	12.53	3.88	1000	3.88	18.54	-111	
1310	25	0.1	2.00	9.13	12.51	7.97	871	4.43	19.17	-109	
1315	30	0.1	2.50	9.15	12.62	7.09	428	4.05	16.69	-101	
1320	35	0.1	3.00	9.20	12.62	7.99	392	4.80	16.79	-100	
1325	40	0.1	3.50	9.25	12.53	7.86	395	4.29	18.74	-99	
1330	45	0.1	4.00	9.30	12.59	7.82	409	4.21	16.76	-99	
1335	50	0.1	4.50	9.33	12.61	7.87	265	4.06	18.07	-99	
1340	55	0.1	5.00	9.36	12.62	7.98	204	4.22	18.08	-95	
1345	60	0.1	5.50	9.38	12.62	7.98	206	4.69	18.02	-91	

Observations During Sampling

Well Condition:	Good	Purge Water Disposal:	ground
Color:	light white	Turbidity(qualitative):	high
Odor:	None	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description From Lab / ARCADIS	Preservative
VOCs	Alpha	3 x 40ml HCL
~~1,4-Dioxane~~	~~Alpha~~	~~2x 250ml amber~~
TAL Metals ~~(total~~/dissolved)	Alpha	1 x 250 HNO3

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GROUNDWATER SAMPLING FORM

ARCADIS

Page ____ of ____

Project No. _____ Well ID MW-1 Date _____

Project Name/Location Alliance 51st St. Weather _____

Measuring Pt. Description _____ Screen Setting (ft-bmp) _____ Casing Diameter (in.) 2 Well Material ✓ PVC ___ SS

Static Water Level (ft-bmp) 9.55 Total Depth (ft-bmp) 20.04 Water Column (ft) 10.49 Gallons in Well 1.68

MP Elevation _____ Pump Intake (ft-bmp) _____ Purge Method: _____ Sample Method G

Pump On/Off _____ Volumes Purged _____ Centrifugal / Submersible / Other _____

Sample Time: Label _____ Gallons Purged _____

Purge Start 1220 Replicate/ Code No. _____ Sampled by KP

Purge End _____

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
1220	-	250	9.55	-	8.27	.775	275	1.53	12.81	-58	cldy	slight
1225	5	300	9.90	.5	7.70	.772	156	.25	13.40	-161	cldy	|
1230	10	250	10.05	1.0	7.58	.760	19.2	.09	12.82	-155	cldy	|
1235	15	250	10.05	1.25	7.48	.750	3.5	0.00	12.49	-148	cldy clr	|
1240	20	200	9.95	1.5	7.43	.757	1.7	0.00	12.40	-143	clr	|
1245	25	250	9.85	1.75	7.38	.756	0.9	0.00	12.31	-140	clr	|
1250	30	200	9.85	2.0	7.36	.762	0.5	0.00	12.25	-137	clr	
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative

Comments DO 0.0

Well Casing Volumes

Gallons/Foot 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: _____ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

GW Samp Form

4/12/2022

GROUNDWATER SAMPLING FORM

ARCADIS

Project No. _____ Well ID MW-2 Page ____ of ____

Project Name/Location Alliance 51st Street Date 1/23/24

Measuring Pt. Description _____ Screen Setting (ft-bmp) _____ Casing Diameter (in) 2 Weather _____

Well Material ✓ PVC ___ SS

Static Water Level (ft-bmp) 6.55 Total Depth (ft-bmp) 20.02 Water Column (ft) _____ Gallons in Well _____

MP Elevation _____ Pump Intake (ft-bmp) _____ Purge Method: _____ Sample Method G

Pump On/Off _____ Volumes Purged _____ Centrifugal / Submersible / Other _____

Sample Time: Label _____ Gallons Purged _____

Purge Start _____ Purge End _____ Replicate/ Code No. _____ Sampled by JP

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
1315	—	250	6.55	—	9.86	.435	7.6	.17	15.29	-195	clr	slight
1320	5	300	6.95	.5	9.96	.428	0.2	0.00	15.45	-229	clr	slight
1325	10	300	6.75	1.0	9.95	.424	0.0	0.00	15.52	-244	clr	slight
1330	15	300	6.85	1.5	9.93	.423	0.6	0.00	15.52	-245	clr	slight
1335	20	300	6.85	2.0	9.86	.426	0.0	0.00	15.58	-247	clr	slight
1340	25	300	6.88	2.5	9.85	.422	0.1	0.00	15.65	-252	clr	slight
1345	30	300	6.88	3.0	9.80	.423	0.3	0.00	15.66	-254	clr	slight
Stabilization Calculations (±)												
Stabilization Criteria					**± 0.1 s.u.**	**±3%**	**± 10% or within 1 NTU (1)**	**± 10%**	**±3%**	**±10 mV**		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative

Comments PID 0.3

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: _____ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

GROUNDWATER SAMPLING FORM

ARCADIS

Page ___ of ___

Project No. 30108678 Well ID MW-3 Date 1/23/24

Project Name/Location Alliance NW Slst St Weather 45 + Sun

Measuring Pt. Description ___ Screen Setting (ft-bmp) ___ Casing Diameter (in.) ___ Well Material X PVC ___ SS

Static Water Level (ft-bmp) 3.94 Total Depth (ft-bmp) 23.76 Water Column (ft) 19.82 Gallons in Well 3.17

MP Elevation ___ Pump Intake (ft-bmp) ___ Purge Method: ___ Sample Method Grab

Pump On/Off 13:00 / 13:45 Volumes Purged ___ Centrifugal ___ Submersible X Other ___

Sample Time: Label 13:40 Gallons Purged 7.50

Purge Start 13:05 Replicate/ Code No. ___ Sampled by TD

Purge End 13:35

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
13:05	5	200	3.94	0.50	8.54	0.642	245	0.00	11.29	-36	Brown	Strong
13:10	10		5.51	1.50	8.17	0.627	171	0.00	10.96	-34		
13:15	15		5.40	2.50	9.04	0.599	158	0.00	10.49	-97		
13:20	20		5.43	3.50	9.23	0.583	115	0.00	10.36	-103		
13:25	25		5.42	5.50	9.67	0.549	111	0.00	10.10	-83		
13:30	30		5.42	6.50	9.78	0.543	93.9	0.00	10.07	-78		
13:35	35		5.40	7.50	9.86	0.546	50.7	0.00	10.06	-79		
Stabilization Calculations (±)												
Stabilization Criteria					**± 0.1 s.u.**	**±3%**	**± 10% or within 1 NTU (1)**	**± 10%**	**±3%**	**±10 mV**		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	Vials	3	HCl
Dissolved Metals	Plastic	1	HNO_3

Comments PID - 0.00

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: ___ Well Locked at Arrival: Yes / No

Condition of Well: ___ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: ___

GW Sample Form

4/12/2022

GROUNDWATER SAMPLING FORM

ARCADIS

Page ___ of ___

Project No. 30108678 Well ID MW-4 Date 1/23/24

Project Name/Location Alliance 51st St Weather 40 + sun

Measuring Pt. Description ___ Screen Setting (ft-bmp) ___ Casing Diameter (in.) 2in Well Material X PVC ___ SS

Static Water Level (ft-bmp) 8.63 Total Depth (ft-bmp) 21.56 Water Column (ft) 12.93 Gallons in Well 2.0658

MP Elevation ___ Pump Intake (ft-bmp) 20 ft Purge Method: ___ Sample Method grab

Pump On/Off 12:00/12:40 Volumes Purged ___ Centrifugal ___ Submersible X Other ___

Sample Time: Label 12:35 Gallons Purged ___ Purge Start 12:00 Purge End 12:40 Replicate/ Code No. ___ Sampled by TD

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
12:05	5	200	9.57	0.50	12.73	5.12	19.9	0.20	14.41	-94	green	moderate
12:10	10	↓	9.36	1.75	12.75	5.22	12.6	0.00	14.57	-100	↓	↓
12:15	15	↓	9.38	2.50	12.76	5.27	8.8	0.00	14.58	-102	↓	↓
12:20	20	↓	9.40	3.25	12.76	5.29	9.0	0.00	14.59	-103	↓	↓
12:25	25	↓	10.14	4.75	12.77	5.32	3.7	0.00	14.86	-103	↓	↓
12:30	30	↓	10.20	5.75	12.77	5.45	3.5	0.00	14.87	-103	↓	↓
		↓									↓	↓
		↓									↓	↓
		↓									↓	↓
		↓									↓	↓
		↓									↓	↓
		↓									↓	↓
		↓									↓	↓
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	Vials	3	HCl
Dissolved Metals	Plastic	1	HNO_3

Comments PID - 0.2

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: ___ Well Locked at Arrival: Yes / No

Condition of Well: ___ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: ___

GW Samp Form

4/12/2022

GROUNDWATER SAMPLING FORM

ARCADIS

Page ___ of ___

Project No. _____ Well ID MW-5 Date 1/23/24

Project Name/Location Alliance 51st Street Weather _____

Measuring Pt. Description _____ Screen Setting (ft-bmp) _____ Casing Diameter (in) 2 Well Material ✓ PVC ___ SS

Static Water Level (ft-bmp) 10.65 Total Depth (ft-bmp) 26.27 Water Column (ft) 10.62 Gallons in Well 1.70

MP Elevation _____ Pump Intake (ft-bmp) _____ Purge Method: _____ Sample Method G

Pump On/Off _____ Volumes Purged _____ Centrifugal / Submersible / Other _____

Sample Time: Label 0945 Gallons Purged 1.5 Sampled by KP

Purge Start 0915 Replicate/

Purge End 0945 Code No. _____

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
0915	-	250	10.65	-	6.90	.336	73.5	.49	13.94	6	NO	NO
0920	5	200	10.84	.25	6.37	.324	79.0	.27	14.85	25		
0925	10	200	10.90	.50	6.03	.319	10.8	.32	15.29	72		
0930	15	250	10.85	.75	6.02	.318	2.2	.35	15.19	85		
0935	20	200	10.90	1.0	6.02	.317	1.0	.41	15.18	98		
0940	25	200	10.90	1.25	6.02	.317	0.4	.42	15.14	103		
0945	30	200	10.90	1.5	6.03	.317	0.3	.46	15.14	110		
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative

Comments PID-0.0

Well Casing Volumes

Gallons/Foot 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: Parking

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: _____

GROUNDWATER SAMPLING FORM

ARCADIS

Page ___ of ___

Project No. _____ Well ID MW-7 Date 1/23

Project Name/Location Alliance 51st Street Weather _____

Measuring Pt. Description _____ Screen Setting (ft-bmp) _____ Casing Diameter (in.) 2 Well Material ✓ PVC ___ SS

Static Water Level (ft-bmp) 4.05 Total Depth (ft-bmp) ~~20.04~~ 17.85 Water Column (ft) 13.80 Gallons in Well 2.21

MP Elevation _____ Pump Intake (ft-bmp) _____ Purge Method: _____ Sample Method G

Pump On/Off _____ Volumes Purged _____ Centrifugal _____ Submersible _____ Other _____

Sample Time: Label 1110 Gallons Purged _____ Replicate/ Code No. _____ Sampled by JP

Purge Start 1020

Purge End 1110

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
1020	—	300	4.05	—	11.86	1.27	163	.93	12.08	~~-15~~	yellow/brn	no
1025	5	300	4.60	.5	11.98	1.28	58.6	.59	12.12	-94	yellow/brn	no
1030	10	300	4.72	1.0	12.04	1.27	17.6	.36	12.24	-116	lt brn	no
1035	15	300	4.85	1.5	12.08	1.27	6.3	.22	12.47	-129	lt brn	no
1040	20	200	4.9	1.75	12.12	1.30	3.6	.16	12.41	-135	lt. brn	no
1045	25	200	4.1	2.0	12.14	1.34	2.9	.06	12.64	-148	lt. brn	no
1050	30	200	4.2	2.25	12.16	1.29	1.3	.04	12.63	-149	lt. brn	no
1055	35	200	4.35	2.5	12.14	1.26	0.9	.08	12.51	-152	lt. brn	no
1100	40	200	4.42	2.75	12.13	1.25	1.5	.02	12.67	-182	lt. brn	no
1105	45	200	4.35	3.0	12.13	1.28	2.0	0.00	12.68	-200	lt. brn	no
1110	50	200	4.15	3.25	12.12	1.28	2.9	0.0	12.86	-207	lt. brn	no
Stabilization Calculations (±)												
Stabilization Criteria					**± 0.1 s.u.**	**±3%**	**± 10% or within 1 NTU (1)**	**± 10%**	**±3%**	**±10 mV**		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative

Comments PID: 1.6

Well Casing Volumes

Gallons/Foot 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: 2nd Containment

Condition of Well: Good

Well Completion: Flush Mount / (Stick Up)

Well Locked at Arrival: Yes / (No)

Well Locked at Departure: Yes / No

Key Number To Well: _____

ARCADIS

GROUNDWATER SAMPLING FORM

Page ___ of ___

Project No. 30108018 Well ID MW-8 Date 1/23/24

Project Name/Location Alliance Sist Weather ___

Measuring Pt. Description ___ Screen Setting (ft-bmp) ___ Casing Diameter (in.) ___ Well Material X PVC ___ SS

Static Water Level (ft-bmp) 2.65 Total Depth (ft-bmp) 19.03 Water Column (ft) 16.38 Gallons in Well 2.62

MP Elevation ___ Pump Intake (ft-bmp) ___ Purge Method: Centrifugal ___ Submersible X Other ___ Sample Method Grab

Pump On/Off 09:20/10:10 Volumes Purged ___

Sample Time: Label 10:10 Gallons Purged 7.50 Sampled by MD

Purge Start 09:25

Purge End 10:05

Replicate/ Code No. ___

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
09:25	5		2.71	0.75	8.15	0.542	1000+	0.00	13.88	-85	Brown	Strong
09:30	10		4.21	1.25	7.95	0.543	659	0.00	12.68	-84	↓	↓
09:35	15		6.50	3.00	7.13	0.539	557	0.00	11.35	-69		
09:40	20		6.93	4.00	6.96	0.517	40.6	0.00	11.94	-84		
09:45	25		8.55	5.00	6.81	0.494	19.1	0.00	13.16	-90		
09:50	30		10.24	5.50	6.76	0.503	1000+	0.00	14.08	-88		
09:55	35		11.45	6.00	6.74	0.515	1000+	0.00	14.50	-79		
10:00	40		11.90	6.50	6.77	0.539	1000+	0.00	12.71	-77	↓	↓
10:05	45		11.95	7.00	6.74	0.541	1000+	0.00	12.30	-81		
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	Vials	3	HCl
Dissolved metals	plastic	1	HNO3

Comments PID = 0.4

Well Casing Volumes

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Well Location: ___ Well Locked at Arrival: Yes / No

Condition of Well: ___ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: ___

ARCADIS

GROUNDWATER SAMPLING FORM

Page ___ of ___

Project No. 30108678 Well ID MW-9 Date 1/23/24

Project Name/Location Alliance SIST ST Weather 35 + Sun

Measuring Pt. Description ___ Screen Setting (ft-bmp) ___ Casing Diameter (in) 2in Well Material X PVC ___ SS

Static Water Level (ft-bmp) 7.24 Total Depth (ft-bmp) 21.35 Water Column (ft) 14.11 Gallons in Well 2.26

MP Elevation ___ Pump Intake (ft-bmp) ___ Purge Method: Centrifugal ___ Submersible X Other ___ Sample Method Grab

Pump On/Off 10:40 / ___ Volumes Purged ___

Sample Time: Label 11:25 Gallons Purged 6.00 Sampled by TD

Purge Start 10:45

Purge End 11:30 Replicate/ Code No. ___

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
10:45	5	200	7.24	0.50	12.50	8.53	1000+	17.45	14.20	-161	Green	Smoky
10:50	10	↓	7.64	1.50	12.73	8.52	1000+	5.05	14.28	-137	↓	↓
10:55	15		7.96	2.00	12.90	8.43	1000+	7.80	13.69	-117		
11:00	20		8.30	3.00	12.91	8.36	390	4.84	14.09	-118		
11:05	25		8.62	4.00	12.93	8.33	292	3.50	14.39	-116		
11:10	30		8.55	5.00	12.93	8.18	288	1.85	14.70	-117		
11:15	35		8.30	5.50	12.94	8.15	175	1.35	14.41	-115		
11:20	40	↓	8.32	6.00	12.95	8.14	168	1.13	14.37	-115		
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	Vials	3	HCl
Dissolved metals	Plastic	1	HNO3

Comments PID - 5.9

Well Casing Volumes

Gallons/Foot 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: ___ Well Locked at Arrival: Yes / No

Condition of Well: ___ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: ___

4/12/2022

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number:	30108678	Site:	Alliance 51st St	Well ID:	MW-7
Date:	5/30/2024	Sampled By:	KA, CM		
Sampling Time:	1120	Recorded By:	KA, CM		
Weather:	68°F, sunny	Duplicate/QA/QC:	DUP-GW		

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:	T-115031	~~PGF1JUD1~~ 3530-1114

Purging Information

Casing Material:	PVC	Purge Method (circle one):	Submersible Centrifugal Bladder Bailer Peristaltic
Casing Diameter:	2	Screen Interval: From:	To:
Total Depth:	17.84	Sampling Interval:	15 ft.
Depth to Water:	5.3	Volumes to be Purged:	
Water Column:		Total Volume Purged:	10 g.
Gallons/Foot:		Pump On:	10:43 Off: 1130
Gallons in Well:	2.05	PID Reading:	0.5 ppm

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1049	5	700	2g	6.8	12.03	1.15	33.2	2.51	14.58	-294	brown
1054	10	300	375	7.11	12.08	1.36	15.2	0.0	13.96	-253	clear/yellow
1059	15	300	4.5	7.13	12.11	1.37	11.4	0.0	13.53	-299	
1104	20	300	6.5	7.33	12.10	1.34	10.3	0.0	13.44	-261	
1109	25	300	7.5	7.33	12.09	1.33	10.3	0.0	13.55	-262	
1114	30	300	8	7.24	12.08	1.35	7.1	0.0	13.52	-296	

Observations During Sampling

Well Condition:	Fair	Purge Water Disposal:	ground
Color:	yellow	Turbidity(qualitative):	
Odor:	—	Other (OVA, HNU,etc.):	

Constituents Sampled	Container Description: From Lab	ARCADIS	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: 30108678 Site: Alliance 51st St Well ID: MW-9
Date: 5/30/2024 Sampled By: CM, KA
Sampling Time: 1500 Recorded By: CM, KA
Weather: 73: sunny Duplicate/QA/QC: —

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:	T-115031	3530-1114

Purging Information

Casing Material: PVC
Casing Diameter: 2
Total Depth: 21
Depth to Water: 9.79
Water Column:
Gallons/Foot:
Gallons in Well: 1.83 g.

Purge Method (circle one) (Submersible) Centrifugal Bladder Bailer Peristaltic
Screen Interval: From: To:
Sampling Interval: 19
Volumes to be Purged:
Total Volume Purged:
Pump On: 1355 Off:
PID Reading: 1.9 ppm

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged g	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1400	5	300	1.25	10.92	13.03	9.08	806	13.87	13.05	-92	cloudy/white
1405	10	400	3.5	11.78	13.04	8.95	464	14.22	12.55	-85	grey
1410	15	400	5.5	12.42	13.01	8.75	604	13.85	12.49	-79	
1415	20	200	6.5	12.17	12.99	8.62	446	11.97	13.31	-79	
1420	25	200	8.5	12.95	12.99	8.52	487	14.56	12.89	-73	
1425	30	200	9	13.21	13.0	8.73	965	12.36	12.86	-73	
1430	35	200	10.75	13.82	12.87	8.73	209	17.15	12.61	-75	
1435	40	300	12	13.09	12.97	8.68	0	12.19	12.91	-82	
1450	55	300	13	13.16	12.99	8.63	0	11.46	12.92	-75	
1455	60	300	14.5	15.05	12.93	8.69	0	11.41	12.25	-67	

(battery died (1435))

Observations During Sampling

Well Condition: fair
Color: cloudy white/grey
Odor:

Purge Water Disposal:
Turbidity(qualitative):
Other (OVA, HNU,etc.):

Constituents Sampled	Container Description From Lab	ARCADIS	Preservative
Total Metals	1		HNO3
Hexcr (un-filtered)	1		NP
Dissolved Metals	1		HNO3
Dissolved Metals (lab filtered)	1		NP
HEXCR	1		NP

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: 30108678 Site: Alliance 51st St Well ID: MW-3
Date: 5/30/2024 Sampled By: CM, KA
Sampling Time: 1305 Recorded By: CM, KA
Weather: 69° Sunny Duplicate/QA/QC: —

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:	T-115031	3530-1114

Purging Information

Casing Material: PVC
Casing Diameter: 2
Total Depth: 25
Depth to Water: 7.02
Water Column:
Gallons/Foot:
Gallons in Well: 2.77

Purge Method:(circle one) (Submersible) Centrifugal Bladder Bailer Peristaltic
Screen Interval: From: To:
Sampling Interval: 23
Volumes to be Purged:
Total Volume Purged: 12.75
Pump On: 1155 Off: 1308
PID Reading: 0.1 ppm

Field Parameter Measurements During Purging mS/cm mg/L

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1200	5	200	0.5	7.85	6.70	0.889	353	4.5	12.98	-94	cloudy brown
1205	10	300	2.25	8.4	6.91	0.566	93.5	0.07	13.90	70	↓
1210	15	300	3.75	8.70	8.22	0.516	98.5	0.04	14.58	-13	yellow
1215	20	300	4.75	8.51	8.69	0.520	49.1	0.0	14.41	-43	
1220	25	300	5.5	8.49	8.88	0.519	15.0	0.0	14.04	-56	
1225	30	300	6.5	8.33	9.04	0.506	13.6	0.0	13.89	-64	
1230	35	300	7.5	8.51	9.10	0.500	79.3	0.0	14.35	-65	
1235	40	300	8.5	8.14	9.13	0.493	50.3	0.59	14.35	-68	
1240	45	300	9.25	8.3	9.51	0.489	10.1	0.0	14.12	-69	
1245	50	300	10.0	8.39	9.89	0.487	21.3	0.26	14.30	-75	
1250	55	300	11.0	8.31	9.98	0.488	11.3	1.37	14.5	-65	
1255	60	300	12.0	8.72	10.22	0.495	11.2	2.73	14.39	-53	
1000	65	300	12.5	8.84	10.29	0.502	14.2	2.15	14.34	-54	

Observations During Sampling

Well Condition: Fair
Color: Yellow
Odor: —

Purge Water Disposal: ground
Turbidity(qualitative):
Other (OVA, HNU,etc.):

Constituents Sampled	Container Description From Lab ____ ARCADIS ____	Preservative

ARCADIS Design & Consultancy for natural and built assets

Groundwater Sampling Form

Project No. ~~30003401.00002~~ Well ID MW-4 Date

Project Name/Location ~~JCP&L Belmar/Belmar, NJ~~ Weather

Measuring Pt. Description | Screen Setting (ft-bmp) | Casing Diameter (in.) | Well Material: ___ PVC ___ SS ___ Other

Total Depth (ft-bmp): 21.95 | Static Water Level (ft-bmp): 10.18 | Water Column in Well | Gallons in Well

MP Elevation | Pump Intake (ft-bmp): ~~20~~ 19.5 | Purge Method: Centrifugal / Submersible / Disp. Bailer / Other | Sample Method

Gallons Purged | Pump On/Off

Sample Time: Label | Replicate/ Code No. | Sampled by

Time	Minutes Elapsed	Rate (gpm) mL/min	Depth to Water (ft) TOC -0.3	Gallons Purged	pH ±0.1 unit	Cond. (µmhos) (mS/cm) ±3%	Turbidity (NTU) ±10%	Dissolved Oxygen (mg/L) ±10%	Temp. (°C) (°F) ±3%	Redox (mV) ±10 mV	Appearance Color	Appearance Odor
1355	0	200	10.45	0	12.53	5.03	24.7	5.84	15.86	-147		
1400	5	200	10.68	1	12.70	5.15	26.3	4.69	14.36	-151		
1405	10	200	10.74	1.5	12.75	5.27	14.6	7.80	14.09	-144		
1410	15	200	10.82	2.5	12.77	5.27	8.7	4.02	13.76	-138		
1415	20	200	10.82	3	12.78	5.32	5.1	3.72	13.78	-135		
1420	25	200	10.86	3.5	12.79	5.30	7.2	3.50	13.72	-131		
1425	30	200	10.86	4	12.79	5.35	3.6	3.40	13.70	-127		
1430	35	200	10.90	4.5	12.80	5.38	4.6	8.39	13.57	-124		
1435	40	200	10.90	5	12.80	5.40	8.1	3.13	13.71	-120		
1440	45	200	10.90	5.5	12.80	5.37	4.3	3.13	13.67	-117		

Constituents Sampled	Container	Number	Preservative
~~BTEX & Naphthalene~~	~~40 mL VOA~~	~~3~~	~~HCl~~

Well Information

Well Location: | Well Locked at Arrival: Yes / No

Condition of Well: | Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up | Key Number To Well:

NOTES:

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: _____ Site: Alliance **Well ID:** TW-514

Date: 6/7/2024 Sampled By: SK

Sampling Time: 1615 Recorded By: SK

Weather: 80° + sunny Duplicate/QA/QC: _____

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: _____

Casing Diameter: _____

Total Depth: 13.91

Depth to Water: 6.49

Water Column: _____

Gallons/Foot: _____

Gallons in Well: _____

Purge Method (circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____ _____

Pump On: _____ Off: _____

PID Reading: _____

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1605	5	200	0.5	6.71	7.54	0.709	0	8.38	21.11	-143	
1620	20	200	1.5	7.14	7.32	0.6076	0	2.75	21.34	-122	

Observations During Sampling

Well Condition: _____

Color: _____

Odor: _____

Purge Water Disposal: _____

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

TW-513

Project Number: _____ Site: Alliance Well ID: ~~SB-514~~

Date: 6/7/2024 Sampled By: SK

Sampling Time: 1450 Recorded By: SK

Weather: 80° + sunny Duplicate/QA/QC: _____

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: _____

Casing Diameter: _____

Total Depth: 13.39

Depth to Water: 8.69

Water Column: _____

Gallons/Foot: _____

Gallons in Well: _____

Purge Method (circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____ _____

Pump On: _____ Off: _____

PID Reading: _____

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1440	5	200	0.5	9.24	7.88	0.460	304	8.68	20.47	-94	
1455	15	200	1	10.02	7.59	0.405	291	2.02	20.35	-94	

Observations During Sampling

Well Condition: _____

Color: _____

Odor: _____

Purge Water Disposal: _____

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number: _____ Site: Alliance Well ID: TW-512

Date: 6/7/2024 Sampled By: SK

Sampling Time: 1420 Recorded By: SK

Weather: 80° + Sunny Duplicate/QA/QC: _____

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: _____

Casing Diameter: _____

Total Depth: 14.05

Depth to Water: 7.85

Water Column: _____

Gallons/Foot: _____

Gallons in Well: _____

Purge Method (circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____

Pump On: _____ Off: _____

PID Reading: _____

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1410	5	150	0.5	8.91	8.81	0.731	709	4.32	23.44	-235	
1425	20	150	2	9.42	8.04	0.696	647	4.54	19.42	-123	

Observations During Sampling

Well Condition: _____

Color: _____

Odor: _____

Purge Water Disposal: _____

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

TW-505

Project Number: _____ Site: Alliance Well ID: ~~SB-505~~

Date: 6/7/24 Sampled By: SK

Sampling Time: 1125 Recorded By: SK

Weather: 80° + sunny Duplicate/QA/QC: _____

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: _____

Casing Diameter: _____

Total Depth: 15.24

Depth to Water: 4.31

Water Column: _____

Gallons/Foot: _____

Gallons in Well: _____

Purge Method (circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____ _____

Pump On: _____ Off: _____

PID Reading: _____

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1115	5	200	0.5	4.50	5.72	~~54~~ 0.344	800	5.33	26.5	-86	oily sheen
1120	10	200	1.5	5.42	5.21	0.316	520	6.32	25.93	-113	+ strong odor
1125	15	200	3	6.12	5.36	0.000	68.7	7.59	25.68	-22	
1135	25	200	4	7.04	6.17	0.189	64.6	7.46	25.72	-92	

Observations During Sampling

Well Condition: _____

Color: _____

Odor: _____

Purge Water Disposal: _____

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

TW-506

Project Number: _____ Site: Alliance 51st Well ID: ~~SB-506~~

Date: 6/7/2024 Sampled By: SK

Sampling Time: 1025 Recorded By: SK

Weather: 75° + sunny Duplicate/QA/QC: DUP-GW

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: _____

Casing Diameter: _____

Total Depth: 14.54

Depth to Water: 6.21

Water Column: _____

Gallons/Foot: _____

Gallons in Well: _____

Purge Method:(circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____ _____

Pump On: _____ Off: _____

PID Reading: _____

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1030	10	200	1	6.52	4.33	0.320	83.3	1.91	25.76	82	

Observations During Sampling

Well Condition: _____

Color: _____

Odor: _____

Purge Water Disposal: _____

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

TW-509

Project Number: _____ Site: Alliance Well ID: ~~SB-509~~

Date: 6/7/2024 Sampled By: SK

Sampling Time: 1200 Recorded By: SK

Weather: 80° - sunny Duplicate/QA/QC: _____

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: _____

Casing Diameter: _____

Total Depth: 13.95

Depth to Water: 10.21

Water Column: _____

Gallons/Foot: _____

Gallons in Well: _____

Purge Method (circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____ _____

Pump On: _____ Off: _____

PID Reading: _____

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1215	30	100	1	13.03	6.60	0.224	67.3	8.21	26.22	60	

Observations During Sampling

Well Condition: _____

Color: _____

Odor: _____

Purge Water Disposal: _____

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative

ARCADIS

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

TW-511

Project Number: _____ Site: Alliance Well ID: ~~SB-511~~

Date: 6/7/2024 Sampled By: SK

Sampling Time: 1340 Recorded By: SK

Weather: 80° sunny Duplicate/QA/QC: _____

Instrument Identification

Instrument:	PID	Water Quality Meter(s) Horiba U-52
Serial #:		

Purging Information

Casing Material: _____

Casing Diameter: _____

Total Depth: 14.82

Depth to Water: 7.98

Water Column: _____

Gallons/Foot: _____

Gallons in Well: _____

Purge Method (circle one) Submersible Centrifugal Bladder Bailer Peristaltic

Screen Interval: From: _____ To: _____

Sampling Interval: _____

Volumes to be Purged: _____

Total Volume Purged: _____ _____

Pump On: _____ Off: _____

PID Reading: _____

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Rate (gpm or ml)	Volume Purged	Depth to Water	pH (SI Units)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Diss. Oxygen	Temp (°C or °F)	ORP (mV)	Comments:
1330	5	200	0.5	11.78	9.37	6.62	800	5.15	25.85	-140	cloudy / green tint
1335	10	200	1	12.28	10.51	0.00	800	7.41	25.38	-124	
1450	25	200	1.5	13.91	11.76	7.14	0	5.98	23.05	-138	

Observations During Sampling

Well Condition: _____

Color: _____

Odor: _____

Purge Water Disposal: _____

Turbidity(qualitative): _____

Other (OVA, HNU,etc.): _____

Constituents Sampled	Container Description: From Lab _____ ARCADIS _____	Preservative

Groundwater Sampling Form

Location ID:	MW-2	**Date(s):**	2024-08-23	**Work Order(s):**		2024 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	82 sunny			**Field Technician:**		Trinity Dammers	
Measuring Pt. Description:		**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	NA	**Total Depth (ft-bmp):**	NA	**Water Column(ft):**		**Gallons in Well:**	NA
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	NA	**Total Volume Purged (gallons):**	NA	**Sample ID:**	NA	**Sample Time:**	NA
Purge End Time:	NA	**Well Volumes Purged (total):**	NA	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	Appearance	
					Color	Odor
					--	--

Constituent Sampled	Container	Number	Preservative

Comments: Not sampled due to being broken.

Well Information:

Well Labeled Properly: no

Is Well in Good Condition? poor

Data retrieval failed for the subreport, 'Subreport2', located at: 'E2E GW delay_defeciancy_subreport'. Please check the log files for more information.

Well Inspection Comments: Very bent and broken and could not get pump in.

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-9	**Date(s):**	2024-08-23	**Work Order(s):**		2024 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Sunny 80			**Field Technician:**		Rudyard Plesmid	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	10.25	**Total Depth (ft-bmp):**	21.36	**Water Column(ft):**	11.11	**Gallons in Well:**	1.81
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	18.5	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	11:35	**Total Volume Purged (gallons):**	7.39	**Sample ID:**	MW-9	**Sample Time:**	12:50
Purge End Time:	12:50	**Well Volumes Purged (total):**	4.08	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
11:35	0	350	mL/min	10.6	13.48	11.8	1000	4.54	23.37	-139	Yellow	Slight
11:40	5	400	mL/min	10.63	13.49	11.9	1000	5	23.31	-133	Yellow	Slight
11:45	10	400	mL/min	10.75	13.49	11.9	1000	3.6	23.08	-122	Yellow	Slight
11:50	15	400	mL/min	10.9	13.5	11.8	1000	3.28	22.8	-116	Yellow	Slight
11:55	20	400	mL/min	11.85	13.48	11.7	670	2.99	23.55	-111	Yellow	Slight
12:00	25	400	mL/min	10.95	13.47	11.7	528	3.74	23.49	-108	Yellow	Slight
12:05	30	400	mL/min	11.05	13.52	11.6	267	3.5	22.24	-102	Yellow	Slight
12:10	35	400	mL/min	11.27	13.51	11.7	192	3.22	22.46	-98	Yellow	Slight
12:15	40	350	mL/min	11.3	13.5	11.6	169	3.02	22.77	-96	Yellow	Slight
12:20	45	350	mL/min	11.35	13.5	11.6	156	3.07	22.91	-95	Yellow	Slight
12:25	50	350	mL/min	11.4	13.5	11.6	133	2.97	23.02	-93	Yellow	Slight
12:30	55	350	mL/min	11.5	13.51	11.7	118	3.04	22.77	-91	Yellow	Slight
12:35	60	350	mL/min	11.6	13.53	11.6	104	2.91	22.4	-90	Yellow	Slight
12:40	65	350	mL/min	11.65	13.52	11.6	92.8	2.69	22.56	-89	Yellow	Slight
12:45	70	350	mL/min	11.75	13.51	11.6	87.8	2.65	22.83	-86	Yellow	Slight
12:50	75	350	mL/min	11.8	13.52	11.6	88.2	2.65	22.83	-87	Yellow	Slight

Constituent Sampled	Container	Number	Preservative
Metals (SW6020)	HDPE Plastic	1	HNO3
Metals (SW6020)	HDPE Plastic	1	HNO3
Metals (SW7196A)	HDPE Plastic	1	None
Metals (SW7196A)	HDPE Plastic	1	None

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Comments: None

Well Information:

Well Labeled Properly:	no
Is Well in Good Condition?	good
Well Inspection Comments:	No lock

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-4	**Date(s):**	2024-08-23	**Work Order(s):**		2024 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	77 sunny			**Field Technician:**		Trinity Dammers	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	10.28	**Total Depth (ft-bmp):**	21.62	**Water Column(ft):**	11.34	**Gallons in Well:**	1.85
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	11:25	**Total Volume Purged (gallons):**	2	**Sample ID:**	MW-4	**Sample Time:**	12:10
Purge End Time:	12:05	**Well Volumes Purged (total):**	1.08	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (µS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
11:30	0	200	mL/min	10.33	14	5.41	124	1.97	19.16	-56	Yellow	No Odor
11:35	5	200	mL/min	10.3	14	5.42	85.1	1.82	19.19	-54	Yellow	No Odor
11:40	10	200	mL/min	10.3	14	5.42	64.9	1.72	19.33	-53	Yellow	No Odor
11:45	15	200	mL/min	10.29	14	5.5	9.7	1.43	19.08	-43	Yellow	No Odor
11:50	20	200	mL/min	10.3	14	5.51	9.1	1.4	19.04	-43	Yellow	No Odor
11:55	25	200	mL/min	10.31	14	5.59	6.3	1.24	18.77	-38	Yellow	No Odor
12:00	30	200	mL/min	10.3	14	5.62	6	1.24	18.76	-37	Yellow	No Odor
12:05	35	200	mL/min	10.31	14	5.67	6.1	1.15	18.59	-35	Yellow	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6020)	HDPE Plastic	1	HNO3
Metals (SW6020)	HDPE Plastic	1	HNO3
Metals (SW7196A)	HDPE Plastic	1	None
Metals (SW7196A)	HDPE Plastic	1	None

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-5	**Date(s):**	2024-08-23	**Work Order(s):**		2024 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Sunny 80s			**Field Technician:**		Rudyard Plesmid	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	12.27	**Total Depth (ft-bmp):**	21.27	**Water Column(ft):**	9	**Gallons in Well:**	1.47
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	18.5	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	13:20	**Total Volume Purged (gallons):**	2.71	**Sample ID:**	MW-5	**Sample Time:**	14:00
Purge End Time:	14:00	**Well Volumes Purged (total):**	1.84	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:20	0	300	mL/min	12.63	8.74	0.455	354	0.56	26	82	Brown	Slight
13:25	5	250	mL/min	12.63	7.65	0.467	79.4	0.84	26.05	84	Brown	Slight
13:30	10	250	mL/min	12.58	6.76	0.47	17.6	0.59	25.79	101	Clear	Slight
13:35	15	300	mL/min	12.6	6.5	0.461	11	0.41	25.84	115	Clear	Slight
13:40	20	250	mL/min	12.5	6.39	0.461	13.4	0.32	25.82	119	Clear	Slight
13:45	25	250	mL/min	12.5	6.32	0.454	12.8	0.25	25.76	124	Clear	Slight
13:50	30	250	mL/min	12.5	6.24	0.443	11	0.21	25.27	125	Clear	Slight
13:55	35	250	mL/min	12.5	6.19	0.438	8.6	0.17	25.34	127	Clear	Slight
14:00	40	250	mL/min	12.5	6.17	0.436	9.1	0.13	25.32	127	Clear	Slight

Constituent Sampled	Container	Number	Preservative
Metals (SW6020)	HDPE Plastic	1	HNO3
Metals (SW6020)	HDPE Plastic	1	HNO3
Metals (SW7196A)	HDPE Plastic	1	None
Metals (SW7196A)	HDPE Plastic	1	None

Comments: None

Well Information:

Well Labeled Properly: no

Is Well in Good Condition? poor

Data retrieval failed for the subreport, 'Subreport2', located at: 'E2E GW delay_defeciancy_subreport'. Please check the log files for more information.

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-7	**Date(s):**	2024-08-23	**Work Order(s):**		2024 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	80 sunny			**Field Technician:**		Trinity Dammers	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	5.58	**Total Depth (ft-bmp):**	17.77	**Water Column(ft):**	12.19	**Gallons in Well:**	1.99
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	12:25	**Total Volume Purged (gallons):**	2.5	**Sample ID:**	MW-7	**Sample Time:**	13:20
Purge End Time:	13:15	**Well Volumes Purged (total):**	1.26	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (µS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
12:30	0	200	mL/min	5.63	13.86	2.11	37.7	2.97	24.54	-104	Yellow	No Odor
12:35	5	200	mL/min	5.6	13.89	2.13	54.1	2.71	24.72	-109	Yellow	No Odor
12:40	10	200	mL/min	5.6	13.96	2.06	15.1	5.16	24.1	-128	Yellow	No Odor
12:45	15	200	mL/min	5.62	13.94	2.04	14.9	4.17	23.75	-130	Yellow	No Odor
12:50	20	200	mL/min	5.61	13.91	1.91	18.7	3.2	23.3	-150	Yellow	No Odor
12:55	25	200	mL/min	5.6	13.87	1.87	18.7	2.41	23.49	-164	Yellow	No Odor
13:00	30	200	mL/min	5.61	13.86	1.84	18.7	2.09	23.36	-167	Yellow	No Odor
13:05	35	200	mL/min	5.62	13.85	1.72	18.1	2.01	23.44	-162	Yellow	No Odor
13:10	40	200	mL/min	5.6	13.85	1.75	18.4	1.99	23.7	-162	Yellow	No Odor
13:15	45	200	mL/min	5.61	13.85	1.84	18.4	1.97	23.56	-161	Yellow	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6020)	HDPE Plastic	1	HNO3
Metals (SW6020)	HDPE Plastic	1	HNO3
Metals (SW7196A)	HDPE Plastic	1	None
Metals (SW7196A)	HDPE Plastic	1	None

Comments: None

Well Information:

Well Labeled Properly: yes

Is Well in Good Condition? good

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-8	**Date(s):**	2024-08-23	**Work Order(s):**		2024 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	81 Sunny			**Field Technician:**		Trinity Dammers	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	4.21	**Total Depth (ft-bmp):**	19.1	**Water Column(ft):**	14.89	**Gallons in Well:**	2.43
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	13:25	**Total Volume Purged (gallons):**	2.75	**Sample ID:**	MW-8	**Sample Time:**	14:25
Purge End Time:	14:20	**Well Volumes Purged (total):**	1.13	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (µS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:30	0	200	mL/min	4.67	8.49	0.508	506	5.76	29.37	-50	Clear	No Odor
13:35	5	200	mL/min	4.71	8.26	0.505	547	5.68	29.44	-47	Clear	No Odor
13:40	10	200	mL/min	4.7	7.88	0.504	359	5.43	29.84	-42	Clear	No Odor
13:45	15	200	mL/min	4.7	7.4	0.494	193	4.93	30.58	-34	Clear	No Odor
13:50	20	200	mL/min	4.68	7.3	0.499	140	4.57	31.4	-31	Clear	No Odor
13:55	25	200	mL/min	4.68	7.23	0.508	116	4.31	32.1	-27	Clear	No Odor
14:00	30	200	mL/min	4.68	7.21	0.511	77.8	4.44	30.6	-20	Clear	No Odor
14:05	35	200	mL/min	4.7	7.18	0.538	28.7	3.94	30.01	-13	Clear	No Odor
14:10	40	200	mL/min	4.7	7.09	0.46	11	3.42	31.06	-26	Clear	No Odor
14:15	45	200	mL/min	4.71	7.11	0.457	11.1	3.39	31.04	-24	Clear	No Odor
14:20	50	200	mL/min	4.7	7.09	0.455	11.2	3.44	31.07	-27	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6020)	HDPE Plastic	1	HNO3
Metals (SW6020)	HDPE Plastic	1	HNO3
Metals (SW7196A)	HDPE Plastic	1	None
Metals (SW7196A)	HDPE Plastic	1	None

Comments: None

Well Information:

Well Labeled Properly: yes

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Is Well in Good Condition?	good
Well Inspection Comments:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-1	**Date(s):**	2024-08-23	**Work Order(s):**		2024 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Sunny 80			**Field Technician:**		Rudyard Plesmid	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	10.3	**Total Depth (ft-bmp):**	20.08	**Water Column(ft):**	9.78	**Gallons in Well:**	1.6
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	18	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	10:10	**Total Volume Purged (gallons):**	5.09	**Sample ID:**	MW-1	**Sample Time:**	11:05
Purge End Time:	11:05	**Well Volumes Purged (total):**	3.18	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:10	0	250	mL/min	10.32	6.74	1.22	196	1.31	25.39	-115	Gray	Moderate
10:15	5	400	mL/min	10.4	6.76	1.19	611	1.38	24.32	-116	Gray	Moderate
10:20	10	400	mL/min	10.4	6.98	1.09	297	1.41	24.02	-126	Gray	Moderate
10:25	15	400	mL/min	10.35	7.12	1.06	61.8	1.09	24.72	-134	Gray	Moderate
10:30	20	400	mL/min	10.35	7.16	1.04	23.2	0.81	25.66	-138	Gray	Moderate
10:35	25	300	mL/min	10.35	7.18	1.04	19.5	0.67	26.41	-140	Clear	Moderate
10:40	30	250	mL/min	10.35	7.16	1.04	11.7	0.37	27.15	-142	Clear	Moderate
10:45	35	250	mL/min	10.35	7.18	1	11.8	0.36	26.63	-142	Clear	Moderate
10:50	40	350	mL/min	10.35	7.23	1.01	5.7	0.5	24.64	-144	Clear	Moderate
10:55	45	350	mL/min	10.38	7.27	1.01	4	0.46	24.63	-146	Clear	Moderate
11:00	50	350	mL/min	10.38	7.27	1.01	2.4	0.38	24.9	-147	Clear	Moderate
11:05	55	400	mL/min	10.4	7.36	1	3.8	0.42	24.65	-148	Clear	Moderate

Constituent Sampled	Container	Number	Preservative
Metals (SW6020)	HDPE Plastic	1	HNO3
Metals (SW6020)	HDPE Plastic	1	HNO3
Metals (SW7196A)	HDPE Plastic	1	None
Metals (SW7196A)	HDPE Plastic	1	None

Comments: None

Well Information:

Well Labeled Properly: no

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Is Well in Good Condition?	good
Well Inspection Comments:	No lock

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-3	**Date(s):**	2024-08-23	**Work Order(s):**		2024 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	73 Sunny			**Field Technician:**		Trinity Dammers	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	4.71	**Total Depth (ft-bmp):**	23.62	**Water Column(ft):**	18.91	**Gallons in Well:**	3.09
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	10:00	**Total Volume Purged (gallons):**	2.75	**Sample ID:**	MW-3	**Sample Time:**	11:00
Purge End Time:	10:55	**Well Volumes Purged (total):**	0.89	**Replicate Type / Replicate ID:**	**Duplicate** / DUP-01	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (µS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:05	0	200	mL/min	5.26	7.15	1.4	79	3.95	22.89	7	Clear	No Odor
10:10	5	200	mL/min	5.27	7.13	1.27	56	3.59	23.76	11	Clear	No Odor
10:15	10	200	mL/min	5.25	7.17	1.03	66.7	3.88	24.06	34	Clear	No Odor
10:20	15	200	mL/min	5.26	7.56	0.746	24.8	5.16	23.67	83	Clear	No Odor
10:25	20	200	mL/min	5.25	7.56	0.75	28.5	5.18	24.53	94	Clear	No Odor
10:30	25	200	mL/min	5.25	7.6	0.743	28.2	5.15	25.23	109	Clear	No Odor
10:35	30	200	mL/min	5.26	7.66	0.734	32.6	5.4	24.71	116	Clear	No Odor
10:40	35	200	mL/min	5.27	7.67	0.734	25	5.34	24.67	121	Clear	No Odor
10:45	40	200	mL/min	5.25	7.67	0.736	18.7	5.05	25.17	127	Clear	No Odor
10:50	45	200	mL/min	5.25	7.71	0.732	18.1	5.08	24.88	131	Clear	No Odor
10:55	50	200	mL/min	5.25	7.7	0.733	18.4	5.04	24.89	131	Clear	No Odor

Constituent Sampled	Container	Number	Preservative
Metals (SW6020)	HDPE Plastic	2	HNO3
Metals (SW6020)	HDPE Plastic	2	HNO3
Metals (SW7196A)	HDPE Plastic	2	None
Metals (SW7196A)	HDPE Plastic	2	None

Comments: None

Well Information:

Well Labeled Properly: yes

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Is Well in Good Condition?	good
Well Inspection Comments:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-2	**Date(s):**	2024-10-04	**Work Order(s):**		2024_10_04 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Sunny			**Field Technician:**		Raymond Miller	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	10.29	**Total Depth (ft-bmp):**	22.97	**Water Column(ft):**	12.68	**Gallons in Well:**	2.07
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	20	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	12:25	**Total Volume Purged (gallons):**	5	**Sample ID:**	NA	**Sample Time:**	NA
Purge End Time:	13:20	**Well Volumes Purged (total):**	2.42	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / WYAE27
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
12:40	0	200	mL/min	10.49	6.04	0.513	16.9	0.83	17.68	-232	Clear	No Odor
12:45	5	200	mL/min	10.51	6.12	0.501	30.6	0	17.67	-247	Clear	No Odor
12:50	10	200	mL/min	10.26	6.17	0.495	74.9	1.25	17.32	-253	Clear	No Odor
12:55	15	200	mL/min	10.56	6.25	0.492	107	0	17.09	-265	Clear	No Odor
13:00	20	200	mL/min	10.56	6.3	0.495	149	1.69	17.06	-271	Clear	No Odor
13:05	25	200	mL/min	10.56	6.34	0.508	174	0	17.12	-277	Clear	No Odor
13:10	30	200	mL/min	10.56	6.51	0.503	9.1	1.57	16.84	-240	Clear	No Odor
13:15	35	200	mL/min	10.56	6.52	0.503	12.8	1.57	16.89	-258	Clear	No Odor
13:20	40	200	mL/min	10.56	6.56	0.505	8.1	3.44	16.72	-221	Clear	No Odor

Constituent Sampled	Container	Number	Volume	Preservative

Comments: None

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Description: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-1	**Date(s):**	2024-11-21	**Work Order(s):**		2024-11 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Cloudy			**Field Technician:**		Raymond Miller	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	7.56	**Total Depth (ft-bmp):**	20.11	**Water Column(ft):**	12.55	**Gallons in Well:**	2.05
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	19	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	11:40	**Total Volume Purged (gallons):**	9	**Sample ID:**	NA	**Sample Time:**	NA
Purge End Time:	12:18	**Well Volumes Purged (total):**	4.39	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
11:35	0	200	mL/min	7.56	7.47	0.757	162	5.5	17.07	-45	Clear	No Odor
11:40	5	200	mL/min	7.56	7.8	0.754	48.7	1.1	17.61	-66	Clear	No Odor
11:45	10	200	mL/min	7.56	8.04	0.752	29.1	1.23	17.79	-105	Clear	No Odor
11:50	15	200	mL/min	7.56	8.07	0.752	14.6	1.19	17.71	-92	Clear	No Odor
11:55	20	200	mL/min	7.56	8.42	0.751	9.8	0.68	17.74	-128	Clear	Moderate
12:00	25	200	mL/min	7.56	8.6	0.751	10	1.55	17.53	-133	Clear	Strong
12:05	30	200	mL/min	7.56	8.43	0.751	6.2	0.63	17.42	-133	Clear	No Odor
12:10	35	200	mL/min	7.56	8.51	0.751	5.7	0.53	17.4	-132	Clear	No Odor
12:15	40	200	mL/min	7.56	8.51	0.751	5.6	0.54	17.4	-133	Clear	No Odor
12:20	45	200	mL/min	7.56	8.53	0.751	5.4	0.52	17.42	-131	Clear	No Odor

Constituent Sampled	Container	Number	Volume

Comments: None

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Preservative

_____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-2	**Date(s):**	2024-11-21	**Work Order(s):**		2024-11 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Cloudy			**Field Technician:**		Raymond Miller	
Measuring Pt. Description:		**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	10.65	**Total Depth (ft-bmp):**	22.94	**Water Column(ft):**	12.29	**Gallons in Well:**	2.01
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	20	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	12:55	**Total Volume Purged (gallons):**	5.5	**Sample ID:**	NA	**Sample Time:**	NA
Purge End Time:	13:28	**Well Volumes Purged (total):**	2.74	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
12:55	0	200	mL/min	10.65	7.07	0.535	39.6	0.43	15.13	8	Clear	No Odor
13:00	5	200	mL/min	10.65	6.96	0.508	23.8	0.09	15.32	-49	Clear	No Odor
13:05	10	200	mL/min	10.65	7.07	0.488	15.8	0.06	15.26	-119	Clear	No Odor
13:10	15	200	mL/min	10.65	7.11	0.484	14.2	0.09	15.24	-142	Clear	No Odor
13:15	20	200	mL/min	10.65	7.17	0.48	12.9	0.15	15.22	-168	Clear	No Odor
13:20	25	200	mL/min	10.65	7.2	0.477	13.2	0.17	15.34	-179	Clear	No Odor
13:25	30	200	mL/min	10.65	7.2	0.477	12.8	0.16	15.36	-186	Clear	No Odor
13:30	35	200	mL/min	10.65	7.23	0.475	12.7	0.23	15.36	-182	Clear	No Odor

Constituent Sampled	Container	Number	Volume

Comments: None

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Preservative

_____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-3	**Date(s):**	2024-11-21	**Work Order(s):**		2024-11 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	45 F cloudy			**Field Technician:**		Trinity Dammers	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	9.22	**Total Depth (ft-bmp):**	23.68	**Water Column(ft):**	14.46	**Gallons in Well:**	2.36
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	13:40	**Total Volume Purged (gallons):**	2	**Sample ID:**	MW-3	**Sample Time:**	14:25
Purge End Time:	14:20	**Well Volumes Purged (total):**	0.85	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (µS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:45	0	200	mL/min	9.3	6.87	0.773	110	0.06	12.77	-15	Clear	No Odor
13:50	5	200	mL/min	9.33	6.75	0.857	79.7	0.5	12.77	-18	Clear	No Odor
13:55	10	200	mL/min	9.34	6.86	1.02	27.4	1.22	13.15	-113	Clear	No Odor
14:00	15	200	mL/min	9.33	6.81	1.04	21.4	1.38	13.09	-121	Clear	No Odor
14:05	20	200	mL/min	9.3	6.85	1.11	15.1	1.55	13.11	-132	Clear	No Odor
14:10	25	200	mL/min	9.29	6.75	1.09	12.6	1.52	12.93	-126	Clear	No Odor
14:15	30	200	mL/min	9.31	6.74	1.08	12.5	1.52	12.9	-125	Clear	No Odor
14:20	35	200	mL/min	9.31	6.73	1.07	11.9	1.44	12.7	-123	Clear	No Odor

Constituent Sampled	Container	Number	Volume
Metals (SW6020)	HDPE Plastic	1	250 mL
Metals (SW6020)	HDPE Plastic	1	250 mL
Metals (SW7196A)	HDPE Plastic	1	250 mL
Metals (SW7196A)	HDPE Plastic	1	250 mL

Comments: None

Well Information:

Well Labeled Properly: no

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Preservative
HNO3
HNO3
None
None

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-4	**Date(s):**	2024-11-21	**Work Order(s):**		2024-11 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	45 cloudy			**Field Technician:**		Trinity Dammers	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	14.65	**Total Depth (ft-bmp):**	22.62	**Water Column(ft):**	7.97	**Gallons in Well:**	1.3
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	12:15	**Total Volume Purged (gallons):**	2	**Sample ID:**	MW-4	**Sample Time:**	13:05
Purge End Time:	13:00	**Well Volumes Purged (total):**	1.54	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (µS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
12:20	0	200	mL/min	14.77	11.53	3.61	43.9	0.1	14.17	-212	Yellow	No Odor
12:25	5	200	mL/min	17.03	11.6	3.87	38	0	14	-216	Yellow	No Odor
12:30	10	200	mL/min	16.98	11.73	3.95	9.7	0.29	13.88	-217	Clear	No Odor
12:35	15	200	mL/min	16.91	11.77	3.93	7.2	0.65	13.79	-202	Clear	No Odor
12:40	20	200	mL/min	16.92	11.83	3.7	7.7	1.24	13.47	-202	Clear	No Odor
12:45	25	200	mL/min	16.94	11.85	3.81	7.9	1.1	13.45	-170	Clear	No Odor
12:50	30	200	mL/min	16.91	11.81	3.83	7.8	3.22	14.01	-148	Clear	No Odor
12:55	35	200	mL/min	16.88	11.89	3.85	7.7	3.21	14.02	-146	Clear	No Odor
13:00	40	200	mL/min	16.9	11.9	3.9	8.2	3.28	13.95	-145	Clear	No Odor

Constituent Sampled	Container	Number	Volume
Metals (SW6020)	HDPE Plastic	1	250 mL
Metals (SW6020)	HDPE Plastic	1	250 mL
Metals (SW7196A)	HDPE Plastic	1	250 mL
Metals (SW7196A)	HDPE Plastic	1	250 mL

Comments: None

Well Information:

Well Labeled Properly: no

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Preservative
HNO3
HNO3
None
None

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-5	**Date(s):**	2024-11-21	**Work Order(s):**		2024-11 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Cloudy			**Field Technician:**		Raymond Miller	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	13.34	**Total Depth (ft-bmp):**	21.31	**Water Column(ft):**	7.97	**Gallons in Well:**	1.3
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	19	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	10:20	**Total Volume Purged (gallons):**	10	**Sample ID:**	NA	**Sample Time:**	NA
Purge End Time:	11:08	**Well Volumes Purged (total):**	7.69	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:30	0	200	mL/min	13.34	7.09	0.282	1000	1.56	16.14	155	Reddish Brown	No Odor
10:35	5	200	mL/min	13.34	7.29	0.279	512	0.39	16.41	156	Gray	No Odor
10:40	10	200	mL/min	13.34	6.89	0.279	292	0.2	16.52	163	Clear	No Odor
10:45	15	200	mL/min	13.34	6.91	0.278	131	0.1	16.66	164	Clear	No Odor
10:50	20	200	mL/min	13.34	7.17	0.278	131	0.04	16.7	144	Clear	No Odor
10:55	25	200	mL/min	13.34	7.11	0.278	84.6	0	16.6	148	Clear	No Odor
11:00	30	200	mL/min	13.34	7.24	0.276	70.3	0	16.6	144	Clear	No Odor
11:05	35	200	mL/min	13.34	6.92	0.275	66.4	0	16.6	153	Clear	No Odor
11:10	40	200	mL/min	13.34	7.03	0.276	66.6	0	16.54	153	Clear	No Odor

Constituent Sampled	Container	Number	Volume

Comments: None

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Preservative

_____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-7	**Date(s):**	2024-11-21	**Work Order(s):**		2024-11 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	44 F cloudy			**Field Technician:**		Trinity Dammers	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	7.82	**Total Depth (ft-bmp):**	17.91	**Water Column(ft):**	10.09	**Gallons in Well:**	1.65
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	09:25	**Total Volume Purged (gallons):**	2	**Sample ID:**	MW-7	**Sample Time:**	10:05
Purge End Time:	10:00	**Well Volumes Purged (total):**	1.21	**Replicate Type / Replicate ID:**	**Duplicate** / DUP-01	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
09:30	0	200	mL/min	8.71	11.88	1.62	204	1.48	17.09	-193	Yellow	No Odor
09:35	5	200	mL/min	8.75	11.91	1.61	90.5	0.89	17.7	-212	Yellow	No Odor
09:40	10	200	mL/min	8.86	11.91	1.61	55.2	0.37	17.06	-238	Yellow	No Odor
09:45	15	200	mL/min	8.89	11.92	1.56	45	0.23	17.52	-251	Yellow	No Odor
09:50	20	200	mL/min	8.93	11.89	1.59	52.2	0.14	17.32	-256	Yellow	No Odor
09:55	25	200	mL/min	8.76	11.86	1.55	48.9	0.09	17.33	-259	Yellow	No Odor
10:00	30	200	mL/min	8.82	11.87	1.58	49.6	0.1	17.32	-257	Yellow	No Odor

Constituent Sampled	Container	Number	Volume
Metals (SW6020)	HDPE Plastic	2	250 mL
Metals (SW6020)	HDPE Plastic	2	250 mL
Metals (SW7196A)	HDPE Plastic	2	250 mL
Metals (SW7196A)	HDPE Plastic	2	250 mL

Comments: None

Well Information:

Well Labeled Properly: no

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Preservative
HNO3
HNO3
None
None

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-8	**Date(s):**	2024-11-21	**Work Order(s):**		2024-11 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	45 F cloudy			**Field Technician:**		Trinity Dammers	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	7.78	**Total Depth (ft-bmp):**	19.22	**Water Column(ft):**	11.44	**Gallons in Well:**	1.87
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	10:35	**Total Volume Purged (gallons):**	4.25	**Sample ID:**	MW-8	**Sample Time:**	12:00
Purge End Time:	11:55	**Well Volumes Purged (total):**	2.27	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
10:40	0	200	mL/min	7.86	8.03	0.283	0	4.01	19.08	-78	Gray	No Odor
10:45	5	200	mL/min	11.31	7.37	0.277	303	2.11	18.11	-63	Gray	No Odor
10:50	10	200	mL/min	11.73	7.16	0.273	298.9	2.11	17.94	-65	Gray	No Odor
10:55	15	200	mL/min	12.69	6.93	0.272	330.1	1.89	18.79	-86	Gray	No Odor
11:00	20	200	mL/min	13.02	6.89	0.276	0	1.82	18.18	-75	Gray	No Odor
11:05	25	200	mL/min	13.38	6.8	0.274	0	1.85	18.11	-73	Gray	No Odor
11:10	30	200	mL/min	14.15	6.77	0.271	0	8.39	17.73	-68	Gray	No Odor
11:15	35	200	mL/min	14.2	6.74	0.274	1000	8.45	17.7	-67	Gray	No Odor
11:20	40	200	mL/min	14.22	6.44	0.276	0	8.44	17.42	-52	Gray	No Odor
11:25	45	200	mL/min	14.42	6.43	0.282	0	8.26	17.53	-62	Gray	No Odor
11:30	50	200	mL/min	14.48	6.45	0.278	0	7.77	17.41	-63	Gray	No Odor
11:35	55	200	mL/min	14.95	6.32	0.274	230	8.36	17.55	-54	Gray	No Odor
11:40	60	200	mL/min	15.02	6.77	0.271	126	4.03	19.71	-76	Clear	No Odor
11:45	65	200	mL/min	15.12	6.65	0.272	135.7	8.44	18.85	-79	Clear	No Odor
11:50	70	200	mL/min	15.21	6.6	0.271	138.2	8.51	19.02	-80	Clear	No Odor
11:55	75	200	mL/min	15.33	6.64	0.271	137.9	8.4	19	-83	Clear	No Odor

Constituent Sampled	Container	Number	Volume
Metals (SW6020)	HDPE Plastic	1	250 mL
Metals (SW6020)	HDPE Plastic	1	250 mL
Metals (SW7196A)	HDPE Plastic	1	250 mL
Metals (SW7196A)	HDPE Plastic	1	250 mL

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Preservative
HNO3
HNO3
None
None

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Comments: None

Well Information:

Well Labeled Properly:	no
Is Well in Good Condition?	good
Well Inspection Comments:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-9	**Date(s):**	2024-11-21	**Work Order(s):**		2024-11 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	Cloudy			**Field Technician:**		Raymond Miller	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	16.2	**Total Depth (ft-bmp):**	21.14	**Water Column(ft):**	4.94	**Gallons in Well:**	0.81
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	19	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	14:10	**Total Volume Purged (gallons):**	9	**Sample ID:**	NA	**Sample Time:**	NA
Purge End Time:	15:03	**Well Volumes Purged (total):**	11.11	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
14:25	0	200	mL/min	16.2	13.95	8.16	0	1.78	14.67	-137	Yellow	No Odor
14:30	5	200	mL/min	16.2	14	8	0	2.5	14.58	-136	Yellow	No Odor
14:35	10	200	mL/min	16.2	14	7.96	0	1.05	14.59	-135	Clear	No Odor
14:40	15	200	mL/min	16.2	14	7.99	1000	1.56	14.56	-141	Clear	No Odor
14:45	20	200	mL/min	16.2	14	8.03	864	1.27	14.58	-141	Clear	No Odor
14:50	25	200	mL/min	16.2	14	8.34	0	6.83	14.34	-122	Yellow	No Odor
14:55	30	200	mL/min	16.2	14	8.36	0	2.93	14.22	-113	Clear	No Odor
15:00	35	200	mL/min	16.2	14	8.29	0	2.84	14.5	-107	Clear	No Odor
15:05	40	20	mL/min	16.2	14	8.25	0	2.81	14.57	-107	Clear	No Odor

Constituent Sampled	Container	Number	Volume

Comments: None

Well Information:

Well Labeled Properly: NA

Is Well in Good Condition? NA

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Preservative

_____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Description: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Groundwater Sampling Form

Location ID:	MW-9	**Date(s):**	2024-11-21	**Work Order(s):**		2024-11 Cr Sampling	
Client:	Alliance	**Facility:**	Alliance 51st Street	**Facility Location:**	1646 S 51st Street, Philadelphia, Pa	**Area:**	Full Site
Weather(°F):	45 F cloudy			**Field Technician:**		Trinity Dammers	
Measuring Pt. Description:	Top of Inner Casing	**Screen Setting (ft-bgs):**	-	**Casing Diameter (in):**	2.00	**Well Casing Material:**	PVC
Static Water Level (ft-bmp):	14.65	**Total Depth (ft-bmp):**	22.62	**Water Column(ft):**	7.97	**Gallons in Well:**	1.3
Depth to Product (ft-bmp):	NA	**Pump Intake Depth(ft-bmp):**	NA	**Purge Method:**	Low Flow	**Purging Equipment:**	Submersible Pump
Purge Start Time:	12:15	**Total Volume Purged (gallons):**	2.25	**Sample ID:**	MW-4	**Sample Time:**	13:05
Purge End Time:	13:00	**Well Volumes Purged (total):**	1.73	**Replicate Type / Replicate ID:**	NA / NA	**Water Quality Meter/ ID:**	Horiba U-52 / NA
Scope of work completed?	Yes						

Time	Total Elapsed (min)	Flow Rate	Flow Rate Unit	Depth to Water (ft)	pH (S.U.)	Specific Conductivity (mS/cm[c])	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
12:20	0	200	mL/min	14.77	11.53	3.61	43.9	0.1	14.17	-212	Yellow	No Odor
12:25	5	200	mL/min	17.03	11.6	3.87	38	0	14	-216	Clear	No Odor
12:30	10	200	mL/min	16.98	11.73	3.95	9.7	0.29	13.88	-217	Clear	No Odor
12:35	15	200	mL/min	16.91	11.77	3.93	7.2	0.65	13.79	-202	Clear	No Odor
12:40	20	200	mL/min	16.92	11.83	3.7	7.7	1.24	13.47	-174	Clear	No Odor
12:45	25	200	mL/min	16.94	11.85	3.81	7.9	1.1	13.45	-170	Clear	No Odor
12:50	30	200	mL/min	16.91	11.81	3.83	7.8	3.22	14.01	-148	Clear	No Odor
12:55	35	200	mL/min	16.88	11.89	3.85	7.7	3.21	14.02	-146	Clear	No Odor
13:00	40	200	mL/min	16.9	11.9	3.9	8.2	3.28	13.95	-145	Clear	No Odor

Constituent Sampled	Container	Number	Volume
Metals (SW6020)	HDPE Plastic	1	250 mL
Metals (SW6020)	HDPE Plastic	1	250 mL
Metals (SW7196A)	HDPE Plastic	1	250 mL
Metals (SW7196A)	HDPE Plastic	1	250 mL

Comments: None

Well Information:

Well Labeled Properly: no

Is Well in Good Condition? good

Well Inspection Comments: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Preservative
HNO3
HNO3
None
None

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

uS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
S.U = standard units
mS/cm = milliSiemens per centimeter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius
gpm = gallons per minute

Soil Gas Sample Point Sampling Logs

Soil Gas Collection Log

Client: Alliance	Facility: Alliance 51st Street	Site Address: 1646 S 51st Street, Philadelphia, Pa

Sample ID	Sampler Name	Date	Leak/Tracer Test completed prior to sample collection							Summa Canister Size: 2.7L						
			Shut in Test Pass/Fail?	Leak Test Method	Shroud Helium Concentration (%)	Purge Reading (ppm)	Leak Test Pass/Fail?	Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Beginning Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Notes
SG-1	MH	2022-05-25	Pass	None	--	--	--	200	50	364	1135	07:22	-30.36	07:38	-4.93	--
SG-2	MH	2022-05-25	Pass	None	--	--	--	200	50	346	336	07:50	-30.18	08:03	-4.01	--
SG-3	MH	2022-05-25	Pass	None	--	--	--	200	50	2374	1167	08:37	-30.04	08:54	-4.59	--
SG-4	MH	2022-05-25	Pass	None	--	--	--	200	50	2079	947	09:05	-30.54	09:21	-3	--
SG-5	MH	2022-05-25	Pass	None	--	--	--	200	50	3159	1402	09:50	-30.11	10:06	-4.86	--
SG-6	MH	2022-05-25	Pass	None	--	--	--	200	50	537	187	10:24	-28.36	10:38	-4.86	--
SG-7	MH	2022-05-25	Pass	None	--	--	--	200	50	403	1638	10:55	-30.23	11:10	-4.86	--

Meteorological Data

Date	Time	Temp		Relative Humidity (%)	Barometric Pressure ()	Weather
		Indoor	Outdoor			
2022-05-25	07:00	--	60F	69	30.36	Mostly cloudy

General Notes or Observations

Date	Comments
2022-05-25	Locations all on uneven ground, each soil gas hole was sealed at surface around tubing

Appendix I

Groundwater Statistical Analyses

TABLE I-1
Summary Statistics and Trend Results
FST 39 Downgradient Plume
Fort Stewart Military Reservation, Georgia
July, 2024

Well ID	Analyte	Date Range	Figure	FOD	Detected Results Summary [1]				Mann-Kendall Test [2]			
					Range	Mean	Median	SD	Result[4]	MK Result Note	P-Value	S Value
MW-7	Benzene	04/22 - 01/24	I-1	8 / 8	33 - 74	49.5	47	13.9	NST	--	0.452	-2
MW-9	Dissolved-Lead	04/22 - 01/24	I-2	8 / 8	15.3 - 65.2	29.5	22.64	16.5	DWN	--	<0.001	-26
MW-9	Naphthalene	04/22 - 01/24	I-3	8 / 8	41 - 150	91.9	95.5	34.1	NST	--	0.360	-4

Abbreviations:

-- = insufficient data for calculating statistics (n < 4) or not available
FOD = frequency of detection (# detects / # samples)
mean = arithmetic mean
SD = standard deviation

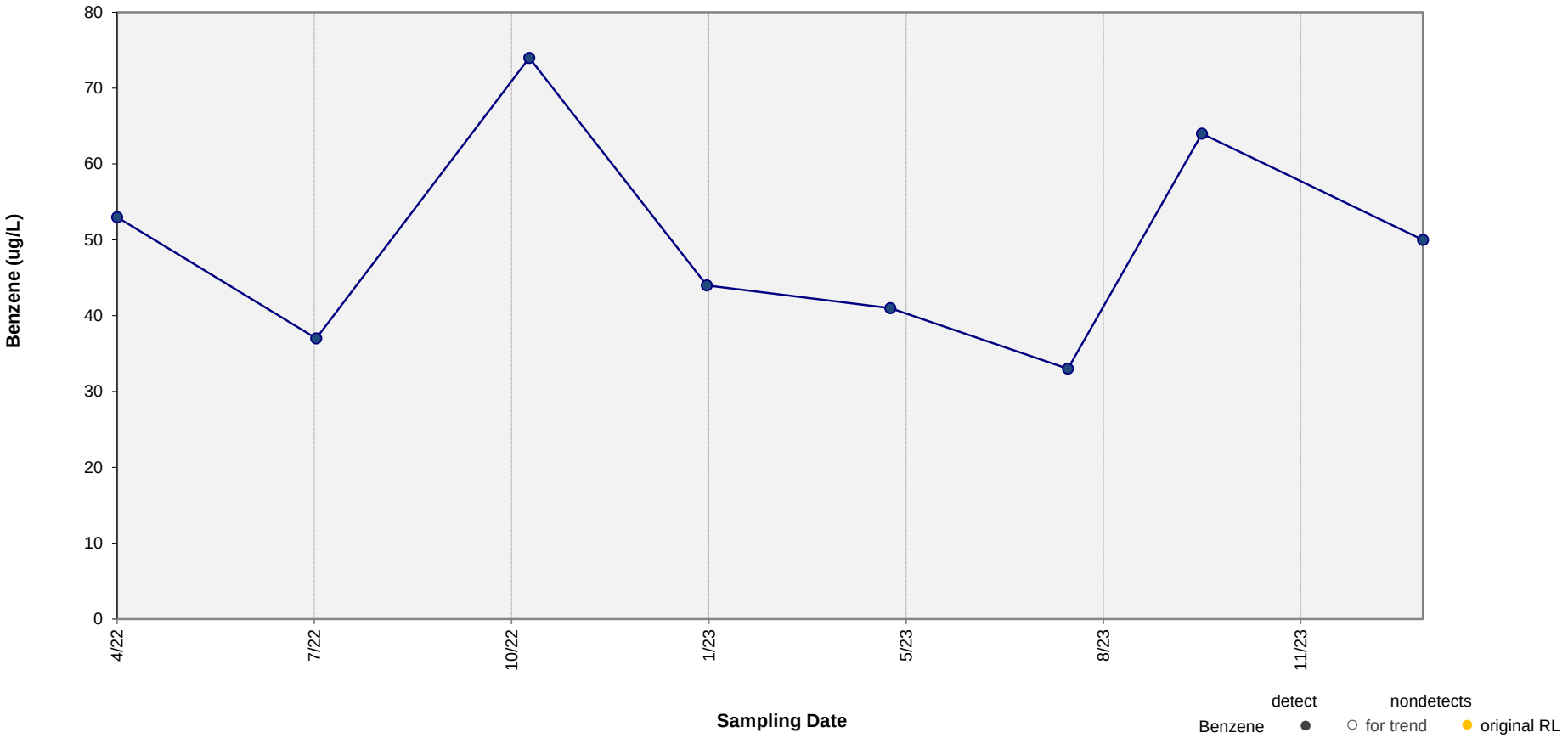
NST = no significant trend
NT = no trend
DWN = downward trend
UP = upward trend

Notes:

1. All analytical results are in µg/L. Result values less than 10 are reported to 2 significant figures; values greater than 10 are reported to 3 significant figures. P-values are reported to 3 decimal places.
2. Trend results are presented when at least four samples and one detected value are available. Significance of trends evaluated at 95% confidence (alpha = 0.05).
3. Non-detects were assigned a common value less than the minimum detected value, equal to half the minimum reporting limit (RL) in the dataset (USEPA, 2009). If half the minimum RL was greater than the minimum detected value, then half the minimum detect was assigned.
4. Statistically significant trend defined as having p-value ≤ 0.05, or 95% confidence.
5a. MK and Sen's Trend results for datasets with fewer than 8 samples may not be reliable and should be treated with caution.
5b. MK Trend results for datasets with an FOD <=20% may not be reliable and should be treated with caution.
5c. Sen's Trend results for datasets with an FOD <=50% may not be reliable and should be treated with caution.
5d. MK and Sen's Trend results for datasets with more than 100 samples are not shown.

Reference:

USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities. Unified Guidance. EPA/530/R-09/007, 2009.



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.452 Note: p value < 0.05 indicates a statistically significant trend (95% confidence level).

Results of Sen's Estimator of Slope: **No Significant Trend**

Median Slope Estimate = -7.5E-03 ug/L Per Day

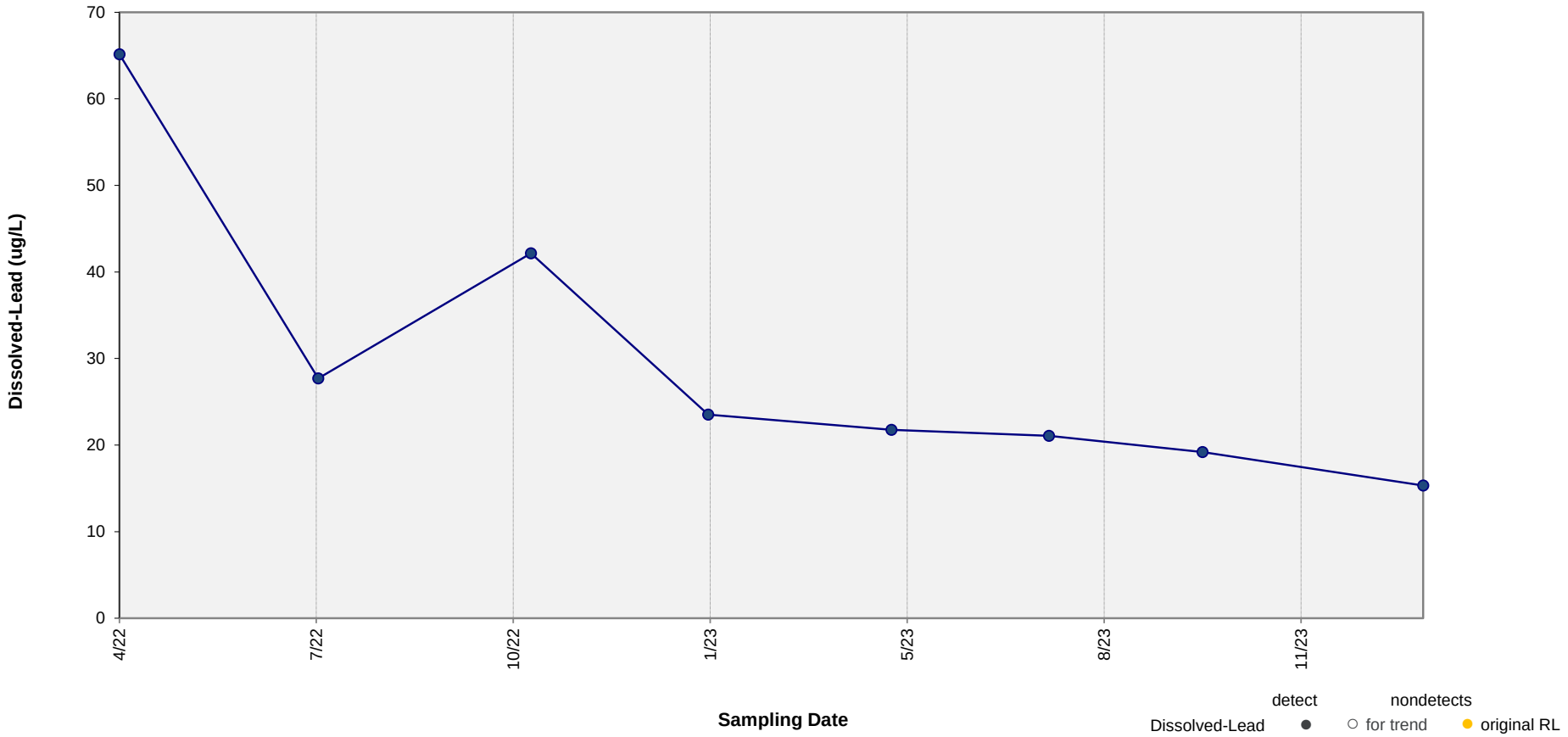
95% Confidence Interval = -8.7E-02 to 5.8E-02 ug/L Per Day

ARCADIS

Concentration vs. Time Plot – Benzene in Well MW-7

Alliance 51st Street LLC

Figure I-1



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = <0.001 Note: p value < 0.05 indicates a statistically significant trend (95% confidence level).

Results of Sen's Estimator of Slope: **DECREASING TREND**

Median Slope Estimate = -2.7E-02 ug/L Per Day

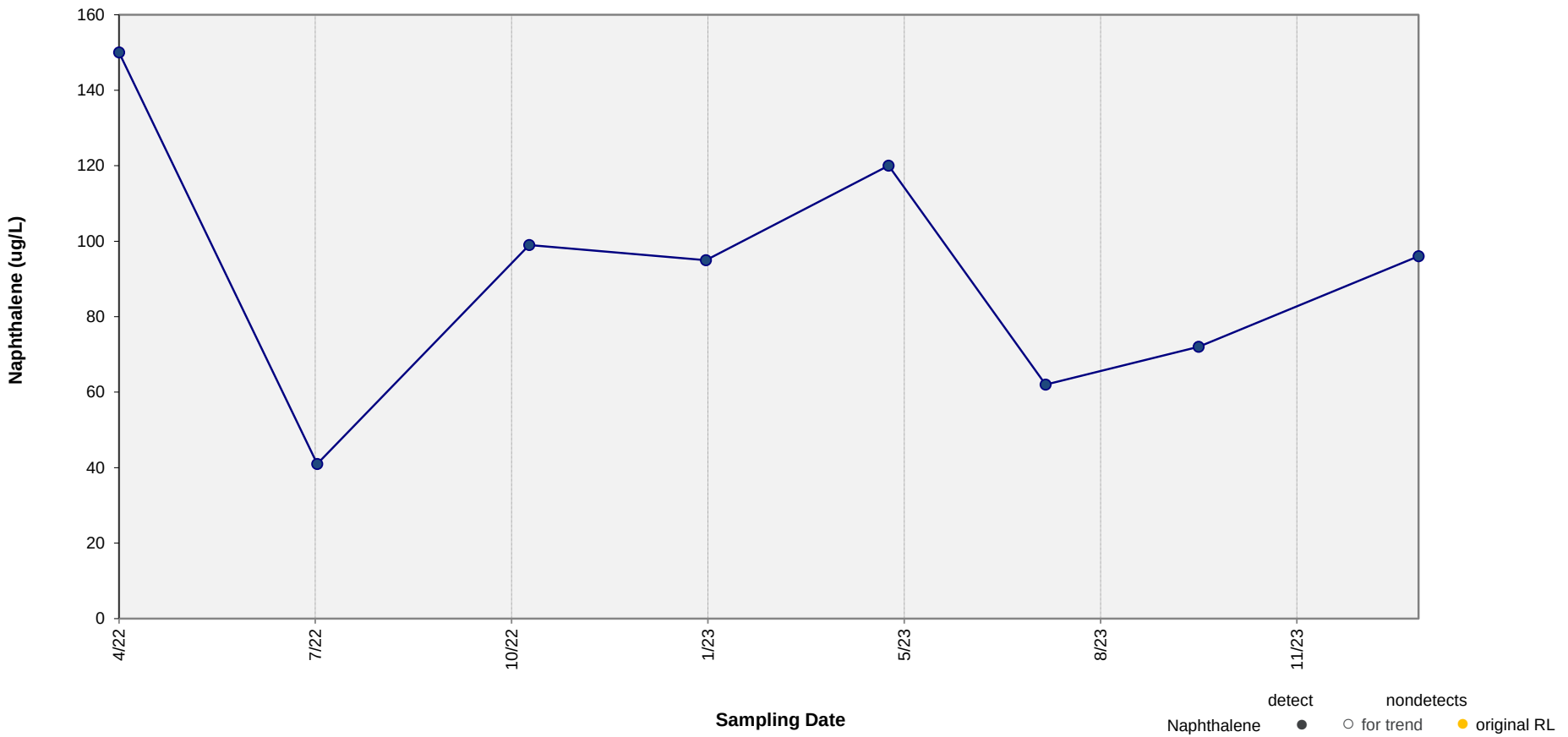
95% Confidence Interval = -1.1E-01 to -1.9E-02 ug/L Per Day

ARCADIS

Concentration vs. Time Plot – Dissolved-Lead in Well MW-9

Alliance 51st Street LLC

Figure I-2



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.360 Note: p value < 0.05 indicates a statistically significant trend (95% confidence level).

Results of Sen's Estimator of Slope: **No Significant Trend**

Median Slope Estimate = -6.0E-02 ug/L Per Day

95% Confidence Interval = -1.9E-01 to 1.3E-01 ug/L Per Day

ARCADIS

Concentration vs. Time Plot – Naphthalene in Well MW-9

Alliance 51st Street LLC

Figure I-3

Appendix J

Groundwater Fate and Transport Analyses

ADVECTIVE TRANSPORT WITH THREE DIMENSIONAL DISPERSION,1ST ORDER DECAY and RETARDATION - WITH CALIBRATION TOOL

Project:	Alliance - Philadelphia 51st St						
Date:	1/17/2025	Prepared by:	MS				
		Contaminant:	Benzene				

SOURCE CONC (MG/L)	Ax (ft)	Ay (ft)	Az (ft) >=.001	LAMBDA day-1	SOURCE WIDTH (ft)	SOURCE THICKNESS (ft)	Time (days) (days)
0.074	1.00E+02	1.00E+01	1.00E-03	0.005	100	15	10950

Hydraulic Cond (ft/day)	Hydraulic Gradient (ft/ft)	Porosity (dec. frac.)	Soil Bulk Density (g/cm^3)	KOC	Frac. Org. Carb.	Retard-ation (R)	V (=K*i/n*R) (ft/day)
1.00E+01	0.030125	0.3	1.7	150	2.00E-03	2.7	0.37191358

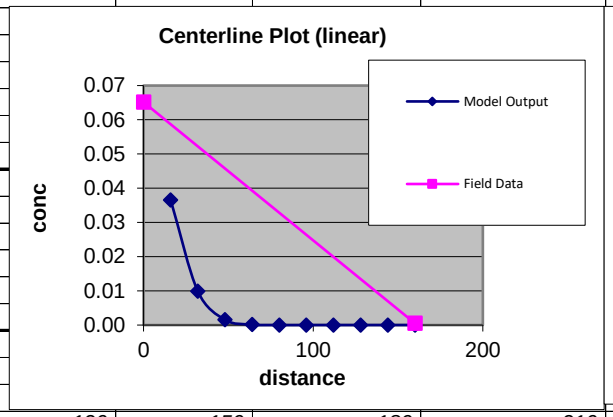
NEW QUICK_DOMENICO.XLS

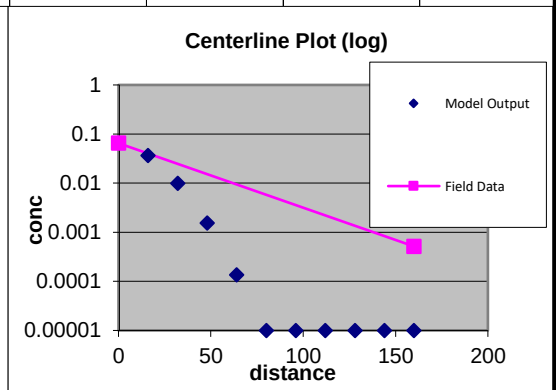
SPREADSHEET APPLICATION OF "AN ANALYTICAL MODEL FOR MULTIDIMENSIONAL TRANSPORT OF A DECAYING CONTAMINANT SPECIES" P.A. Domenico (1987) Modified to Include Retardation

Point Concentration

x(ft)	y(ft)	z(ft)
265	0	0

	x(ft)	y(ft)	z(ft)
Conc. At	265	0	0
at	10950	days =	0.005 mg/l





AREAL MODEL CALCULATION DOMAIN

Length (ft) 300

Width (ft) 100

	30	60	90	120	150	180	210	240	270	300
100	0.001	0.003	0.004	0.005	0.004	0.004	0.003	0.003	0.002	0.002
50	0.029	0.023	0.018	0.014	0.011	0.008	0.007	0.005	0.004	0.003
0	0.056	0.040	0.028	0.021	0.015	0.011	0.008	0.006	0.005	0.004
-50	0.029	0.023	0.018	0.014	0.011	0.008	0.007	0.005	0.004	0.003
-100	0.001	0.003	0.004	0.005	0.004	0.004	0.003	0.003	0.002	0.002

Field Data:	Centerline C Concentration	0.074			0.004			
	Distance from Source	0	40	80	285			

ADVECTIVE TRANSPORT WITH THREE DIMENSIONAL DISPERSION,1ST ORDER DECAY and RETARDATION - WITH CALIBRATION TOOL

Project:	Alliance - Philadelphia 51st St						
Date:	1/16/2025	Prepared by:	MS				
		Contaminant:	Naphthalene				

SOURCE CONC (MG/L)	Ax (ft)	Ay (ft)	Az (ft) >=.001	LAMBDA day-1	SOURCE WIDTH (ft)	SOURCE THICKNESS (ft)	Time (days) (days)
0.15	1.00E+02	1.00E+01	1.00E-03	0.002683	100	15	10950

Hydraulic Cond (ft/day)	Hydraulic Gradient (ft/ft)	Porosity (dec. frac.)	Soil Bulk Density (g/cm^3)	KOC	Frac. Org. Carb.	Retard-ation (R)	V (=K*i/n*R) (ft/day)
1.00E+01	0.030125	0.3	1.7	1500	2.00E-03	18	0.055787037

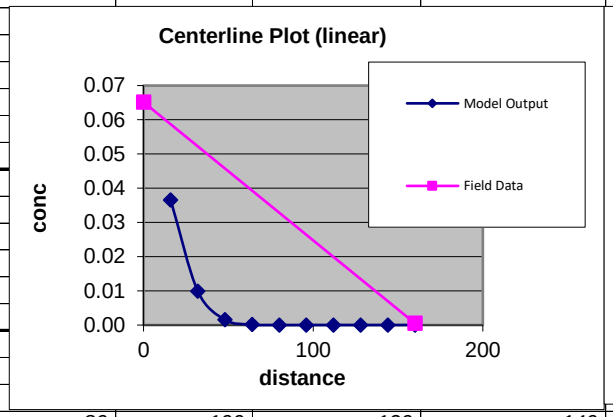
NEW QUICK_DOMENICO.XLS

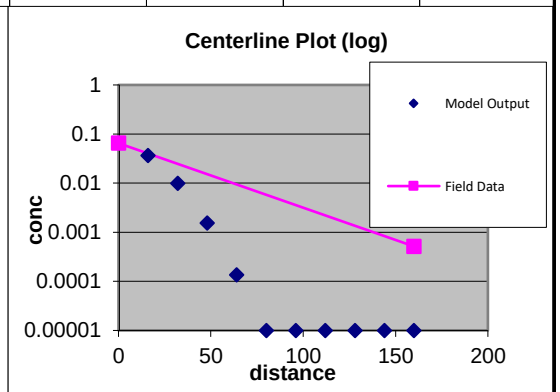
SPREADSHEET APPLICATION OF "AN ANALYTICAL MODEL FOR MULTIDIMENSIONAL TRANSPORT OF A DECAYING CONTAMINANT SPECIES" P.A. Domenico (1987) Modified to Include Retardation

Point Concentration

x(ft)	y(ft)	z(ft)
22	0	0

	x(ft)	y(ft)	z(ft)
Conc. At	22	0	0
at	10950	days =	**0.100** mg/l





AREAL MODEL CALCULATION DOMAIN

Length (ft) 200

Width (ft) 100

	20	40	60	80	100	120	140	160	180	200
100	0.001	0.003	0.004	0.004	0.003	0.003	0.002	0.002	0.001	0.001
50	0.053	0.037	0.026	0.018	0.013	0.009	0.006	0.004	0.003	0.002
0	0.104	0.069	0.045	0.029	0.019	0.013	0.008	0.006	0.004	0.003
-50	0.053	0.037	0.026	0.018	0.013	0.009	0.006	0.004	0.003	0.002
-100	0.001	0.003	0.004	0.004	0.003	0.003	0.002	0.002	0.001	0.001

Field Data:										
	Centerline C Concentration			0.15			0			
	Distance from Source			0	40	80	160			

ADVECTIVE TRANSPORT WITH THREE DIMENSIONAL DISPERSION,1ST ORDER DECAY and RETARDATION - WITH CALIBRATION TOOL

Project:	Alliance - Philadelphia 51st St						
Date:	1/24/2025	Prepared by:	MS				
		Contaminant:	Lead				

SOURCE CONC (MG/L)	Ax (ft)	Ay (ft)	Az (ft)	LAMBDA day-1	SOURCE WIDTH (ft)	SOURCE THICKNESS (ft)	Time (days) (days)
			>=.001				
0.06515	1.00E+02	1.00E+01	1.00E-03	0	100	15	10950

Hydraulic Cond (ft/day)	Hydraulic Gradient (ft/ft)	Porosity (dec. frac.)	Soil Bulk Density (g/cm^3)	KOC	Frac. Org. Carb.	Retard-ation (R)	V (=K*i/n*R) (ft/day)
1.00E+01	0.030125	0.3	1.7	45000	2.00E-03	511	0.001965101

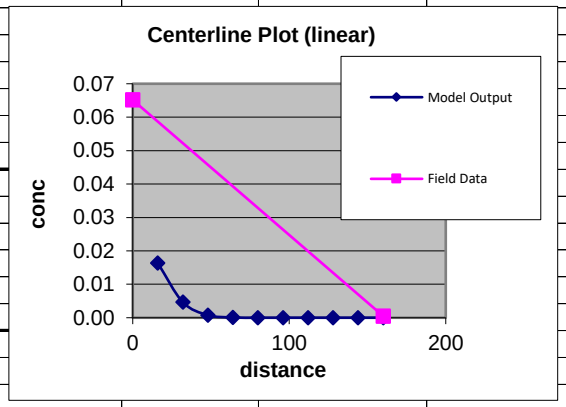
NEW QUICK_DOMENICO.XLS

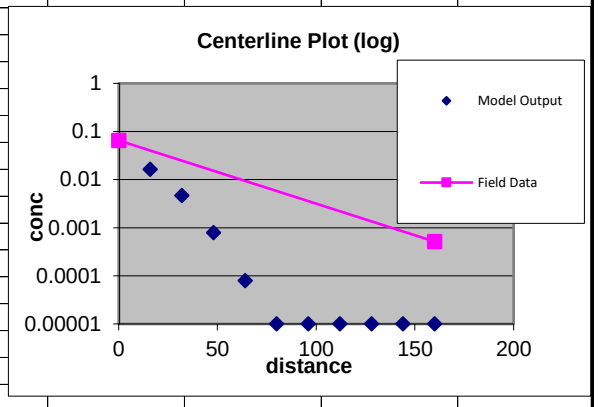
SPREADSHEET APPLICATION OF "AN ANALYTICAL MODEL FOR MULTIDIMENSIONAL TRANSPORT OF A DECAYING CONTAMINANT SPECIES" P.A. Domenico (1987) Modified to Include Retardation

Point Concentration

x(ft)	y(ft)	z(ft)
105	0	0

	x(ft)	y(ft)	z(ft)
Conc. At	105	0	0
at	10950	days =	0.005 mg/l





AREAL MODEL CALCULATION DOMAIN

Length (ft) 200

Width (ft) 100

	20	40	60	80	100	120	140	160	180	200
100	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000
50	0.017	0.013	0.009	0.006	0.004	0.002	0.001	0.001	0.000	0.000
0	0.033	0.023	0.015	0.010	0.006	0.003	0.002	0.001	0.000	0.000
-50	0.017	0.013	0.009	0.006	0.004	0.002	0.001	0.001	0.000	0.000
-100	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000

Field Data:	Centerline C Concentration	0.06515			0.0005149			
	Distance from Source	0	40	80	160			

ADVECTIVE TRANSPORT WITH THREE DIMENSIONAL DISPERSION,1ST ORDER DECAY and RETARDATION - WITH CALIBRATION TOOL

Project:	Alliance - Philadelphia 51st St		
Date:	1/16/2025	Prepared by:	MS
		Contaminant:	Hex Cr

SOURCE CONC (MG/L)	Ax (ft)	Ay (ft)	Az (ft) >=.001	LAMBDA day-1	SOURCE WIDTH (ft)	SOURCE THICKNESS (ft)	Time (days) (days)
23.5	1.00E+02	1.00E+01	1.00E-03	0	100	15	10950

Hydraulic Cond (ft/day)	Hydraulic Gradient (ft/ft)	Porosity (dec. frac.)	Soil Bulk Density (g/cm^{3})	KOC	Frac. Org. Carb.	Retard-ation (R)	V (=K*i/n*R) (ft/day)
1.00E+01	0.030125	0.3	1.7	9500	2.00E-03	108.6666667	0.009240798

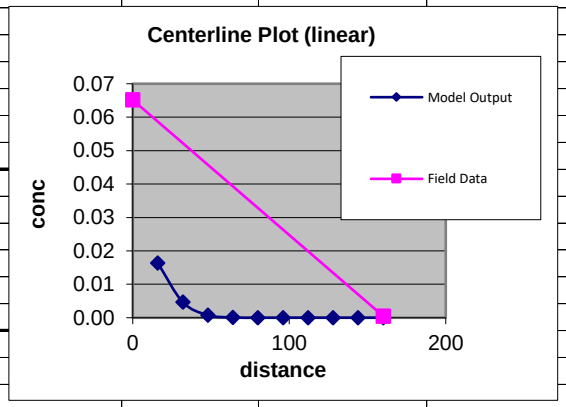
NEW QUICK_DOMENICO.XLS

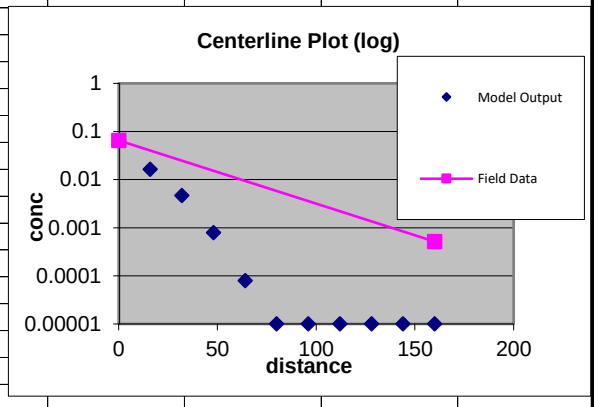
SPREADSHEET APPLICATION OF "AN ANALYTICAL MODEL FOR MULTIDIMENSIONAL TRANSPORT OF A DECAYING CONTAMINANT SPECIES" P.A. Domenico (1987) Modified to Include Retardation

Point Concentration

x(ft)	y(ft)	z(ft)
430	0	0

	x(ft)	y(ft)	z(ft)
Conc. At	430	0	0
at	10950	days =	**0.100** mg/l





AREAL MODEL CALCULATION DOMAIN

Length (ft) 500
Width (ft) 100

	50	100	150	200	250	300	350	400	450	500
100	0.857	1.554	1.526	1.178	0.774	0.444	0.225	0.101	0.040	0.014
50	7.514	5.764	4.006	2.537	1.463	0.766	0.362	0.154	0.059	0.020
0	13.338	8.711	5.490	3.268	1.807	0.918	0.424	0.178	0.067	0.023
-50	7.514	5.764	4.006	2.537	1.463	0.766	0.362	0.154	0.059	0.020
-100	0.857	1.554	1.526	1.178	0.774	0.444	0.225	0.101	0.040	0.014
Field Data:	**Centerline C**	**Concentration**		23.5			9.3			0
	Distance from Source			0	40	80	160			500

ADVECTIVE TRANSPORT WITH THREE DIMENSIONAL DISPERSION,1ST ORDER DECAY and RETARDATION - WITH CALIBRATION TOOL

Project:	Alliance - Philadelphia 51st St										
Date:	1/17/2025	Prepared by:	MS								
		Contaminant:	Hex Cr								
SOURCE CONC (MG/L)	Ax (ft)	Ay (ft)	Az (ft)	LAMBDA day-1	SOURCE WIDTH (ft)	SOURCE THICKNESS (ft)	Time (days) (days)				
			>=.001								
19.3	1.00E+02	1.00E+01	1.00E-03	0	100	15	10950				
Hydraulic Cond (ft/day)	Hydraulic Gradient (ft/ft)	Porosity (dec. frac.)	Soil Bulk Density (g/cm^3)	KOC	Frac. Org. Carb.	Retard-ation (R)	V (=K*i/n*R) (ft/day)				
1.00E+01	0.030125	0.3	1.7	9500	2.00E-03	108.6666667	0.009240798				

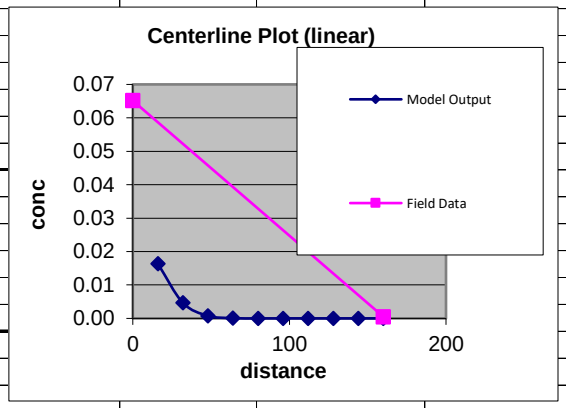
NEW QUICK_DOMENICO.XLS

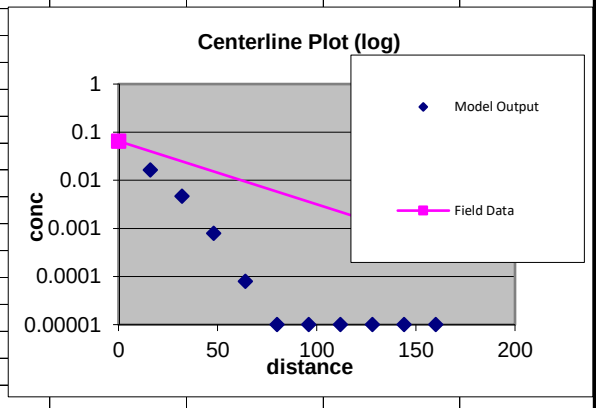
SPREADSHEET APPLICATION OF "AN ANALYTICAL MODEL FOR MULTIDIMENSIONAL TRANSPORT OF A DECAYING CONTAMINANT SPECIES" P.A. Domenico (1987) Modified to Include Retardation

Point Concentration

x(ft)	y(ft)	z(ft)
420	0	0

	x(ft)	y(ft)	z(ft)
Conc. At	420	0	0
at	10950	days =	**0.100** mg/l





	AREAL MODEL	CALCULATION DOMAIN
	Length (ft)	500
	Width (ft)	100

	50	100	150	200	250	300	350	400	450	500
100	0.704	1.276	1.253	0.968	0.635	0.365	0.185	0.083	0.033	0.012
50	6.171	4.734	3.290	2.084	1.202	0.629	0.298	0.127	0.049	0.017
0	10.954	7.154	4.508	2.684	1.484	0.754	0.349	0.146	0.055	0.019
-50	6.171	4.734	3.290	2.084	1.202	0.629	0.298	0.127	0.049	0.017
-100	0.704	1.276	1.253	0.968	0.635	0.365	0.185	0.083	0.033	0.012

Field Data:	Centerline C	Concentration	23.5			0			
	Distance from Source		0	40	80	285			

Table J-1

Quick Domenico Input Parameters - Benzene Model

1646 S 51st St, Philadelphia, Pennsylvania

Parameter	Modeled Values	Rationale and References
Hydrogeology		
Hydraulic gradient from source toward downgradient well [i (ft/ft)]	0.030	Representative gradient used from July 2023
Hydraulic conductivity [K (ft/d)]	10	
Hydraulic conductivity [K (cm/sec)]	0.0035	Within middle of range for a fine sand (3 ft/day to 20 ft/day likely range), calibration parameter
Effective porosity (n_e)	0.3	Within suggested range of 0.01-0.40 for porous soils
Seepage velocity from MW-7 toward Wells (ft/day) [(K)(i/ne)]	0.372	
Seepage velocity from MW-7 toward Wells (ft/yr) [(K)(i/ne)]	136	Calculated from above parameters
Dispersion		
Longitudinal dispersivity, Ax (ft)	100	Approximately 10% of the distance to nearest receptor / furthest downgradient well, as recommended in user's manual.
Transverse dispersivity, Ay (ft)	10	Assumed to be 10% of the longitudinal dispersivity
Vertical dispersivity, Az (ft)	0.001	Assumed to be very small
Adsorption		
Retardation factor (R) - Benzene	2.7	Estimated by model from soil bulk density, porosity, organic carbon content and constituent K_{oc}
Bulk density (Kg/L) (row_b)	1.7	Default bulk density
Organic carbon fraction [f_{oc} (g/g)]	0.002	Default foc value
Naphthalene Organic carbon partition coefficient [K_{oc} (L/Kg)]	150	USEPA November 2024 recommended value for risk assessment: https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
Soil-water partition coefficient [Kd (L/Kg) = koc*foc]	0.3	Calculated from above parameters
Biodegradation		
Source Decay	N/A	QD Model does not simulate decaying sources. Thus, source concentration remained constant for simulated period.
First-Order Decay Constant / Transport Decay, lambda (1/day)	0.005	Table 5A in Appendix A of the PA Act 2 regulations recommends 0.001 as a starting value, but the manual also states there is a large uncertainty and decay rate depends on site-specific conditions. Based upon field data (benzene much lower concentration in downgradient well MW-2), this value was increased slightly to 0.005 to best match field data.
General		
Modeled area length (ft)	300	Assumed model domain
Modeled area width (ft)	100	Assumed model domain
Simulation time (yr) / (day)	30 / 10950	Approximate time to reach steady-state and evaluate transport
Source Data		
Source Concentration (mg/L) - Benzene	0.074	Conservative estimate of benzene at source (highest recorded concentration from October 2022)
Source Thickness (ft) - Benzene	15	Estimated source thickness
Model Source width (ft) - Benzene	100	Approximate width of area considered to be the source
Groundwater Quality Objectives		
Water quality objective (mg/L) - Benzene	0.005	PA Groundwater MSC Non-Residential

Notes:

yellow highlight refers to the predictive model result

cm/sec - centimeters per second

ft/d - feet per day

ft - feet

ft/ft - foot per foot

ft/yr - feet per year

L/Kg - liter per kilogram

mi^2 - square miles

USEPA - United States Environmental Protection Agency

PADEP - Pennsylvania Department of Environmental Protection

d - day

d^{-1} - per day

mg/L - milligrams per liter

Table J-1

Quick Domenico Input Parameters - Naphthalene Model

1646 S 51st St, Philadelphia, Pennsylvania

Parameter	Modeled Values	Rationale and References
Hydrogeology		
Hydraulic gradient from source toward downgradient well [i (ft/ft)]	0.030	Average gradient from MW-9 to MW-4 in July 2023
Hydraulic conductivity [K (ft/d)]	10	
Hydraulic conductivity [K (cm/sec)]	0.0035	Within middle of range for a fine sand (3 ft/day to 20 ft/day likely range), calibration parameter
Effective porosity (n_e)	0.3	Within suggested range of 0.01-0.40 for porous soils
Seepage velocity from MW-9 toward Wells (ft/day) [(K)(i/ne)]	0.0558	
Seepage velocity from MW-9 toward Wells (ft/yr) [(K)(i/ne)]	20.4	Calculated from above parameters
Dispersion		
Longitudinal dispersivity, Ax (ft)	100	Approximately 10% of the distance to nearest receptor / furthest downgradient well, as recommended in user's manual.
Transverse dispersivity, Ay (ft)	10	Assumed to be 10% of the longitudinal dispersivity
Vertical dispersivity, Az (ft)	0.001	Assumed to be very small
Adsorption		
Retardation factor (R) - Naphthalene	18	Estimated by model from soil bulk density, porosity, organic carbon content and constituent K_{oc}
Bulk density (Kg/L) (row_b)	1.7	Default bulk density
Organic carbon fraction [f_{oc} (g/g)]	0.002	Default foc value
Naphthalene Organic carbon partition coefficient [K_{oc} (L/Kg)]	1500	USEPA November 2024 recommended value for risk assessment: https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
Soil-water partition coefficient [Kd (L/Kg) = koc*foc]	3	Calculated from above parameters
Biodegradation		
Source Decay	N/A	QD Model does not simulate decaying sources. Thus, source concentration remained constant for simulated period.
First-Order Decay Constant / Transport Decay, lambda (1/day)	0.00268	Table 5A in Appendix A of the PA Act 2 regulations
General		
Modeled area length (ft)	200	Assumed model domain
Modeled area width (ft)	100	Assumed model domain
Simulation time (yr) / (day)	30 / 10950	Approximate time to reach steady-state and evaluate transport
Source Data		
Source Concentration (mg/L) - Naphthalene	0.15	Conservative estimate of naphthalene at source (highest recorded concentration from April 2022)
Source Thickness (ft) - Naphthalene	15	Estimated source thickness
Model Source width (ft) - Naphthalene	100	Approximate width of area considered to be the source
Groundwater Quality Objectives		
Water quality objective (mg/L) - Naphthalene	0.100	PA Groundwater MSC Non-Residential

Notes:

yellow highlight refers to the predictive model result

cm/sec - centimeters per second

ft/d - feet per day

ft - feet

ft/ft - foot per foot

ft/yr - feet per year

L/Kg - liter per kilogram

mi^2 - square miles

USEPA - United States Environmental Protection Agency

PADEP - Pennsylvania Department of Environmental Protection

d - day

d^{-1} - per day

mg/L - milligrams per liter

Table J-1

Quick Domenico Input Parameters - Pb Model

1646 S 51st St, Philadelphia, Pennsylvania

Parameter	Modeled Values	Rationale and References
Hydrogeology		
Hydraulic gradient from source toward downgradient well [i (ft/ft)]	0.030	Average gradient from MW-9 to MW-4 in July 2023
Hydraulic conductivity [K (ft/d)]	10	
Hydraulic conductivity [K (cm/sec)]	0.0035	Within middle of range for a fine sand (3 ft/day to 20 ft/day likely range), calibration parameter
Effective porosity (n_e)	0.3	Within suggested range of 0.01-0.40 for porous soils
Seepage velocity from MW-9 toward Wells (ft/day) [(K)(i/ne)]	0.001965	
Seepage velocity from MW-9 toward Wells (ft/yr) [(K)(i/ne)]	0.7178	Calculated from above parameters
Dispersion		
Longitudinal dispersivity, Ax (ft)	100	Approximately 10% of the distance to nearest receptor / furthest downgradient well, as recommended in user's manual.
Transverse dispersivity, Ay (ft)	10	Assumed to be 10% of the longitudinal dispersivity
Vertical dispersivity, Az (ft)	0.001	Assumed to be very small
Adsorption		
Retardation factor (R) - Pb	511	Estimated by model from soil bulk density, porosity, organic carbon content and constituent K_{oc}
Bulk density (Kg/L) (row_b)	1.7	Default bulk density
Organic carbon fraction [f_{oc} (g/g)]	0.002	Default foc value
Pb Organic carbon partition coefficient [K_{oc} (L/Kg)]	45,000	USEPA November 2024 recommended value for risk assessment is 450,000 (Kd recommended at 900 and Kd = foc x Koc): https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables Based upon field data, this value was decreased to 45,000 to better match field data so the model slightly overpredicts lead at downgradient well MW-4
Soil-water partition coefficient [Kd (L/Kg) = koc*foc]	90	Calculated from above parameters
Biodegradation		
Source Decay	N/A	QD Model does not simulate decaying sources. Thus, source concentration remained constant for simulated period.
First-Order Decay Constant / Transport Decay, lambda (1/day)	0	Recommended value for inorganic solutes
General		
Modeled area length (ft)	100	Assumed model domain
Modeled area width (ft)	100	Assumed model domain
Simulation time (yr) / (day)	30 / 10950	Approximate time to reach steady-state and evaluate transport
Source Data		
Source Concentration (mg/L) - Pb	0.0652	Conservative estimate of dissolved lead at source (highest recorded concentration from April 2022)
Source Thickness (ft) - Pb	15	Estimated source thickness
Model Source width (ft) - Pb	100	Approximate width of area considered to be the source
Groundwater Quality Objectives		
Water quality objective (mg/L) - Pb	0.005	PA Groundwater MSC Non-Residential

Notes:

yellow highlight refers to the predictive model result

cm/sec - centimeters per second

ft/d - feet per day

ft - feet

ft/ft - foot per foot

ft/yr - feet per year

L/Kg - liter per kilogram

mi^2 - square miles

USEPA - United States Environmental Protection Agency

PADEP - Pennsylvania Department of Environmental Protection

d - day

d^{-1} - per day

mg/L - milligrams per liter

Table J-1

Quick Domenico Input Parameters - Hex Cr Model

1646 S 51st St, Philadelphia, Pennsylvania

Parameter	Modeled Values	Rationale and References
Hydrogeology		
Hydraulic gradient from source toward downgradient well [i (ft/ft)]	0.030	Representative gradient used from July 2023
Hydraulic conductivity [K (ft/d)]	10	
Hydraulic conductivity [K (cm/sec)]	0.0035	Within middle of range for a fine sand (3 ft/day to 20 ft/day likely range), calibration parameter
Effective porosity (n_e)	0.3	Within suggested range of 0.01-0.40 for porous soils
Seepage velocity from MW-4 or MW-7 toward Wells (ft/day) [(K)(i/ne)]	0.00924	
Seepage velocity from MW-4 or MW-7 toward Wells (ft/yr) [(K)(i/ne)]	3.38	Calculated from above parameters
Dispersion		
Longitudinal dispersivity, Ax (ft)	100	Approximately 10% of the distance to nearest receptor / furthest downgradient well, as recommended in user's manual.
Transverse dispersivity, Ay (ft)	10	Assumed to be 10% of the longitudinal dispersivity
Vertical dispersivity, Az (ft)	0.001	Assumed to be very small
Adsorption		
Retardation factor (R) - Hex Cr	109	Estimated by model from soil bulk density, porosity, organic carbon content and constituent K_{oc}
Bulk density (Kg/L) (row_b)	1.7	Default bulk density
Organic carbon fraction [f_{oc} (g/g)]	0.002	Default foc value
Hex Cr Organic carbon partition coefficient [K_{oc} (L/Kg)]	9,500	USEPA November 2024 recommended value for risk assessment (Kd recommended at 19 and Kd = foc x Koc): https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
Soil-water partition coefficient [Kd (L/Kg) = koc*foc]	19	Calculated from above parameters
Biodegradation		
Source Decay	N/A	QD Model does not simulate decaying sources. Thus, source concentration remained constant for simulated period.
First-Order Decay Constant / Transport Decay, lambda (1/day)	0	Recommended value for inorganic solutes
General		
Modeled area length (ft)	500	Assumed model domain
Modeled area width (ft)	100	Assumed model domain
Simulation time (yr) / (day)	30 / 10950	Approximate time to reach steady-state and evaluate transport
Source Data		
Source Concentration for MW-4 model (mg/L) - Hex Cr	23.5	Conservative estimate of dissolved Hex Cr at source (highest recorded concentration from May 2024)
Source Concentration for MW-7 model (mg/L) - Hex Cr	19300	Conservative estimate of dissolved Hex Cr at source (highest recorded concentration from November 2024)
Source Thickness (ft) - Hex Cr	15	Estimated source thickness
Model Source width (ft) - Hex Cr	100	Approximate width of area considered to be the source
Groundwater Quality Objectives		
Water quality objective (mg/L) - Hex Cr	0.100	PA Groundwater MSC Non-Residential

Notes:

yellow highlight refers to the predictive model result

cm/sec - centimeters per second

ft/d - feet per day

ft - feet

ft/ft - foot per foot

ft/yr - feet per year

L/Kg - liter per kilogram

mi^2 - square miles

USEPA - United States Environmental Protection Agency

PADEP - Pennsylvania Department of Environmental Protection

d - day

d^{-1} - per day

mg/L - milligrams per liter

Table J-2
Quick Domenico Analysis Predicted Transport Distances
1646 S 51st St, Philadelphia, Pennsylvania

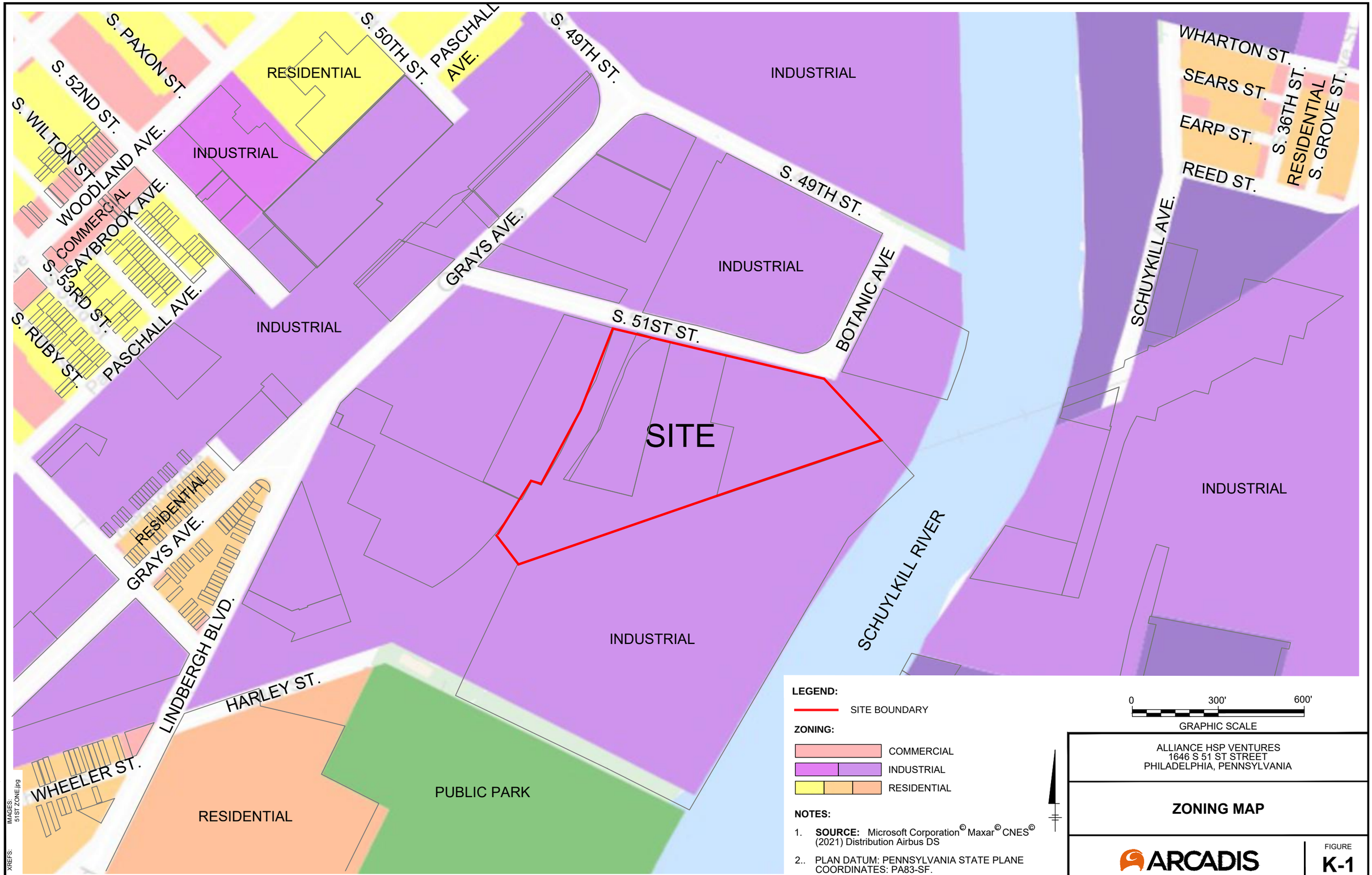
Constituent	Predicted Distance to Reach Groundwater MSCs (ft)
Source towards Downgradient Well (MW-9 to MW-4)	
Dissolved Lead	105
Naphthalene	22
Source towards Downgradient Well (MW-4 to MW-1)	
Hexavalent Chromium	430
Source towards Downgradient Well (MW-7 to MW-2)	
Hexavalent Chromium	420
Benzene	265

Acronyms and Abbreviations:
ft = feet

Appendix K

Zoning and Local Groundwater Use Information

Zoning and Public Water Connection Information



LEGEND:

SITE BOUNDARY

ZONING:

COMMERCIAL

INDUSTRIAL

RESIDENTIAL

NOTES:

1. **SOURCE:** Microsoft Corporation© Maxar© CNES© (2021) Distribution Airbus DS
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.

0 300' 600'

GRAPHIC SCALE

ALLIANCE HSP VENTURES
1646 S 51 ST STREET
PHILADELPHIA, PENNSYLVANIA

ZONING MAP

ARCADIS

FIGURE
K-1

C:\Users\kdavis\DC\ACCDocs\Arcadis ACC US\AUS-99999999-ALLIANCE_S 51ST ST_PHILADELPHIA_PA\Project Files\10_WIP\10T_ARC_ENV\202401\01-DWG\GEN-F01-ZONING MAP.dwg LAYOUT: 1 SAVED: 11/27/2024 8:41 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: PDF-BL-COLOR PLOTTED: 11/27/2024 8:41 AM BY: DAVIS, KATHI
XREFS:
IMAGES:
51ST ZONE.jpg

SECTION P-608 PROTECTION OF POTABLE WATER SUPPLY

P-608.1 General.

P-608.1.1 Backflow containment assemblies required. *Backflow containment assemblies shall be installed in all buildings.*

Exception: *Residential buildings with four dwelling units or less.* 374

P-608.1.2 Installation of backflow containment assemblies. *Installation shall be in accordance with Philadelphia Water Department Regulation 403 and the Philadelphia Water Department Cross Connection Control Manual, as amended.*

* * *

P-608.4 Potable water handling and treatment equipment. Water pumps, filters, softeners, tanks and other appliances and devices that handle or treat potable water to be supplied to the potable water ~~distribution~~ *supply* system shall be located to prevent contamination from entering the appliances and devices. Overflow, relief valve and waste discharge pipes from such appliances and devices shall terminate through an air gap.

* * *

P-608.9 Identification of nonpotable water systems.

* * *

P-608.9.2 Distribution pipe labeling and marking. Nonpotable distribution *and supply* piping shall be purple in color and shall be embossed, or integrally stamped or marked, with the words: "CAUTION: NONPOTABLE WATER – DO NOT DRINK" or the piping shall be installed with a purple identification tape or wrap. Pipe identification shall include the contents of the piping system and an arrow indicating the direction of flow. Hazardous piping systems shall also contain information addressing the nature of the hazard. Pipe identification shall be repeated at intervals not exceeding 25 feet (7620 mm) and at each point where the piping passes through a wall, floor or roof. Lettering shall be readily observable within the room or space where the piping is located.

* * *

P-608.9.2.3 Identification tape. Where used, identification tape shall be not less than 3 inches (76 mm) wide and have white or black lettering on a purple field stating "CAUTION: NONPOTABLE WATER – DO NOT DRINK". Identification tape shall be installed on top of nonpotable rainwater distribution *and supply* pipes, fastened not less than every 10 feet (3048 mm) to each pipe length and run continuously the entire length of the pipe.

* * *

P-608.17 Connections to the potable water system.

* * *

P-608.17.4 Connections to automatic fire sprinkler systems and standpipe systems. The potable water supply to automatic fire sprinkler and standpipe systems shall be protected against backflow by a double check backflow prevention assembly, a double check fire protection backflow prevention assembly or a reduced pressure principle fire protection backflow prevention assembly.

Exceptions:

1. Where systems are installed as a portion of the water ~~distribution~~ *supply* system in accordance with the requirements of this code and are not provided with a fire department connection, isolation of the water supply system shall not be required.

2. Isolation of the water ~~distribution~~ *supply* system is not required for deluge, preaction or dry pipe systems.

* * *

P-608.17.7 Chemical dispensers. Where chemical dispensers connect to the potable water ~~distribution~~ *supply* system, the water supply system shall be protected against backflow in accordance with Section 608.14.1, 608.14.2, 608.14.5, 608.14.6, 608.14.8 or 608.14.9.

P-608.17.8 Portable cleaning equipment. Where the portable cleaning equipment connects to the water ~~distribution~~ *supply* system, the water supply system shall be protected against backflow in accordance with Section 608.14.1, 608.14.2, 608.14.3, 608.14.7 or 608.14.8.

* * *

P-608.18 Protection of individual water supplies. An individual water supply shall be located and constructed so as to be safeguarded against contamination in accordance with Sections 608.18.1 through 608.18.~~8~~7. 375

P-608.18.1 Well locations. A potable ground water source or pump suction line shall not be located closer to potential sources of contamination than the distances shown in Table 608.18.1. In the event the underlying rock structure is limestone or fragmented shale, the local or state health department shall be consulted on well site location. The distances in Table 608.18.1 constitute minimum separation and shall be increased in areas of creviced rock or limestone, or where the direction of movement of the ground water is from sources of contamination toward the well. *Note: All well-water quality requires approval by the Department of Public Health.*

* * *

~~**P-608.18.6 Dug or bored well casings.** Dug or bored well casings shall be of water-tight concrete, tile or galvanized or corrugated metal pipe extending to not less than 10 feet (3048 mm) below the ground surface. Where the water table is more than 10 feet (3048 mm) below the ground surface, the water-tight casing shall extend below the table surface. Well casings for dug wells or bored wells constructed with sections of concrete, tile or galvanized or corrugated metal pipe shall be surrounded by 6 inches (152 mm) of grout poured into the hole between the outside of the casing and the ground and extending not less than 10 feet (3048 mm) below the ground surface.~~

P-608.18.~~7~~*6* Cover. Potable water wells shall be equipped with an overlapping water-tight cover at the top of the well casing or pipe sleeve such that contaminated water or other substances are prevented from entering the well through the annular opening at the top of the well casing, wall or pipe sleeve. Covers shall extend downward not less than 2 inches (51 mm) over the outside of the well casing or wall. A dug well cover shall be provided with a pipe sleeve permitting the withdrawal of the pump suction pipe, cylinder or jet body without disturbing the cover. Where pump sections or discharge pipes enter or leave a well through the side of the casing, the circle of contact shall be water tight.

P-608.18.8*7* Drainage. Potable water wells and springs shall be constructed such that surface drainage will be diverted away from the well or spring.

* * *

Notes

374 Amended, Bill No. 190713 (approved December 30, 2019), effective February 3, 2020. See note 348 for effective date provisions.

375 Amended, Bill No. 230653 (approved December 20, 2023), effective April 1, 2024.

CHAPTER 13-500. PROVISIONS GOVERNING USE OF WATER [56]

Notes

[56] **Source:** 1871 Ordinances, p. 237.

§ 13-501. Connections. [57]

(1) No connection shall be made to a city water main unless a permit is obtained from the Department of Licenses and Inspections.

(2) Connections to the city water mains shall be made only by authorized employees of the Water Department or by persons under contracts approved by the Water Department.

(3) No such permit shall be issued unless the applicant furnishes the written consent of the owner of the premises to be supplied or of the owner's authorized agent and pays the charges required by subsection 13-305(1).

(4) The fee for such permit shall be fixed by the Water Department and shall include the actual cost of installing the connection, including but not limited to the ferrule or other connections, the valve, the valve box and necessary pipe.

(5) The Water Department shall issue regulations establishing charges for service, at least equal to the actual cost thereof, setting forth all specifications covering the material, weight and size of service pipe in relation to the water meter to be serviced.

Notes

[57] Amended, 1972 Ordinances, p. 459.

§ 13-502. Service Pipe, Valves, and Stop-Cocks.

(1) Every person having a connection to the City's water supply system of between 1/2-inch and 2 inches in diameter shall provide and maintain a sufficient stop-cock and shut-off valve affixed to such connection, and shall keep it adequately protected and easily accessible.

(2) Every person having a connection to the City's water supply system of 2 inches or less shall maintain in good repair at his own expense a service pipe from the City's main into the premises.

(3) Any person having a connection to the City's water supply system in excess of 2 inches shall not be required to maintain the service pipe from the City's main to the curb line.

(4) The provisions of subsections 13-502(2) and (3) do not apply to existing connections made pursuant to ordinances which provide for maintenance and repair by the City.

§ 13-503. Unnecessary Flow or Leakage.

(1) If any person permits water to flow unnecessarily or to leak from any pipe, fixture or appliance upon property which he owns or occupies or in his service pipes, the Water Department may shut off the supply of water to the property.

(2) No person shall turn on water which has been shut off pursuant to subsection 13-503(1) unless the unnecessary flow or leakage has been repaired or corrected.

(3) The Water Department or other City agency may enter and inspect any property at reasonable times to ascertain the existence of unnecessary flow or leakage of water, to read the water meter, or to repair or replace the water meter.

§ 13-504. Single Connections Required.

(1) Not more than one dwelling shall be supplied with water from a single connection or ferrule except with the written approval of the Water Department.

(2) Whenever two or more premises have been supplied from a single connection or ferrule, and one or more of the owners or occupants of the premises becomes delinquent in the payment of water rent or permits water to flow unnecessarily or to leak from any pipe, fixture or appliance therein, the Water Department may shut off the supply of water to the premises.

(a) Such supply shall not be renewed until:

(.1) a separate connection is installed for each premise;

(.2) the delinquent water rents are paid;

(.3) the leakage is repaired; and

(.4) the unnecessary flow of water is stopped.

(3) Whenever the owner of one or more premises which have been supplied from a single ferrule makes application to discontinue the use of water, the owner of any other premises served from this ferrule shall install a separate connection.

LEGEND:

- PROPERTY HAS NO CURRENT ACTIVE WATER ACCOUNTS WITH THE PWD
- NO METER INSTALLED ON PROPERTY -- CONNECTED TO PWD VIA STORMWATER SERVICE BUT NOT WATER SERVICE
- PARCEL CONTAINS PROPERTY(S) CONNECTED TO PUBLIC WATER UTILITY (PWD)
- RESIDENTIAL AREA - ALL PROPERTIES CONNECTED TO PUBLIC WATER UTILITY (PWD)
- 2403 RESIDENTIAL AREA - STREET ADDRESS FOR PROPERTY NOT CONNECTED

NOTES:

1. **SOURCE:** Microsoft Corporation © Maxar © CNES © (2021) Distribution Airbus DS
2. PLAN DATUM: PENNSYLVANIA STATE PLANE COORDINATES: PA83-SF.

0 300' 600'

GRAPHIC SCALE

ALLIANCE HSP VENTURES
1646 S 51 ST STREET
PHILADELPHIA, PENNSYLVANIA

WATER UTILITY CONNECTION - PHILADELPHIA WATER DEPT

ARCADIS

FIGURE
K-2

C:\Users\kdavis\Downloads\GEN-F01-SITE PLAN.dwg LAYOUT: 1 SAVED: 12/6/2024 1:51 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: PDF-BL-COLOR PLOTTED: 12/6/2024 1:51 PM BY: DAVIS, KATHI
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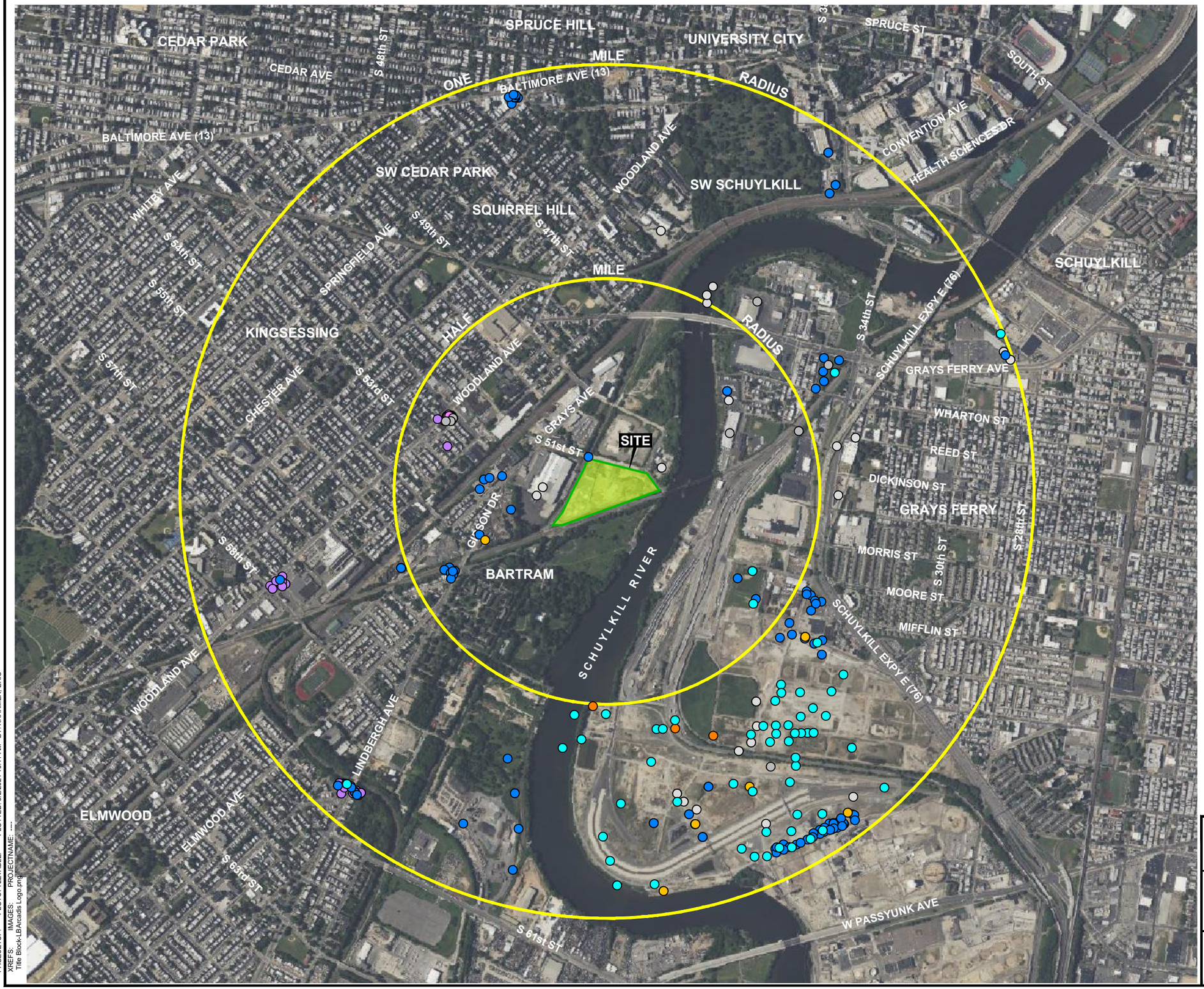
Well Inventory Results

Table K-1
PaGEODE Survey Results - 0.5-Mile Radius
Former 51st Street Terminal
1630-1646 South 51st Street
Philadelphia, Pennsylvania

PA Well ID	County	Municipality	Well Address	Date Drilled	Latitude	Longitude	Driller	Well Use	Water Use	Well Depth (ft)
477821	PHILADELPHIA	PHILADELPHIA	5201 Grays Ave, Philadelphia	4/1/2011	39.93588	-75.2148	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	15
477819	PHILADELPHIA	PHILADELPHIA	5201 Grays Ave, Philadelphia	4/1/2011	39.93598	-75.214	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	40
473933	PHILADELPHIA	PHILADELPHIA	1630	11/21/2010	39.93655	-75.21016	ENVIRONMENTAL PROBING INVESTIGATIONS INC	MONITORING	INDUSTRIAL	23
490581	PHILADELPHIA	PHILADELPHIA	5364 Lindbergh Blvd, Philadelphia	8/30/2011	39.93267	-75.21635	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	28
490279	PHILADELPHIA	PHILADELPHIA	5364 Lindbergh Blvd, Philadelphia	8/30/2011	39.93292	-75.21645	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	55
510983	PHILADELPHIA	PHILADELPHIA	5200 Woodland Ave., Philadelphia, PA	12/5/2013	39.93808	-75.21626	ALEXANDER MACPHEE--CVM INDUSTRIES	TEST	UNUSED	23
510997	PHILADELPHIA	PHILADELPHIA	5200 Woodland Ave., Philadelphia, PA	12/5/2013	39.9379	-75.21642	ALEXANDER MACPHEE--CVM INDUSTRIES	UNUSED	UNUSED	24
477824	PHILADELPHIA	PHILADELPHIA	5201 Grays Ave., Philadelphia	4/1/2011	39.93593	-75.21456	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	33
29905	PHILADELPHIA	PHILADELPHIA	NP	4/24/1951	39.93722	-75.20083	RIDPATH AND POTTER COMPANY	UNUSED	UNUSED	230
424514	PHILADELPHIA	NP	REFINERY AREA - OFF MOORE ST	6/19/2008	39.9325	-75.20306	PARRATT-WOLFF INC	WITHDRAWAL	NP	28
490586	PHILADELPHIA	PHILADELPHIA	5364 Lindbergh Blvd, Philadelphia	8/30/2011	39.93277	-75.21628	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	36
490583	PHILADELPHIA	PHILADELPHIA	5364 Lindbergh Blvd, Philadelphia	8/30/2011	39.93279	-75.2163	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	28
30462	PHILADELPHIA	PHILADELPHIA	NP	1/1/1904	39.93722	-75.20389	RIDPATH AND POTTER COMPANY	UNUSED	UNUSED	300
490278	PHILADELPHIA	PHILADELPHIA	5364 Lindbergh Blvd, Philadelphia	8/30/2011	39.93285	-75.21667	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	45
673121	PHILADELPHIA	PHILADELPHIA	1350 SCHUYLKILL AVE	4/6/2004	39.93865	-75.20395	AMERIDRILL, INC.	MONITORING	OTHER	22
490584	PHILADELPHIA	PHILADELPHIA	5364 Lindbergh Blvd, Philadelphia	8/30/2011	39.93267	-75.21629	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	28
490585	PHILADELPHIA	PHILADELPHIA	5364 Lindbergh Blvd, Philadelphia	8/30/2011	39.93254	-75.21639	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	28
477165	PHILADELPHIA	PHILADELPHIA	5201 Grays Ave, Philadelphia	4/1/2011	39.93556	-75.21501	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	31
682795	PHILADELPHIA	PHILADELPHIA	NP	12/12/2019	39.93155	-75.20294	PARRATT-WOLFF INC	MONITORING	NP	63
490277	PHILADELPHIA	PHILADELPHIA	5364 Lindbergh Blvd, Philadelphia	8/30/2011	39.9328	-75.21621	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	48
490120	PHILADELPHIA	PHILADELPHIA	5364 Lindbergh Blvd, Philadelphia	8/30/2011	39.93274	-75.2164	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	28
648797	PHILADELPHIA	PHILADELPHIA	5200 Woodland Ave.	8/23/2016	39.93806	-75.21617	AMERIDRILL, INC.	MONITORING	NP	21
510985	PHILADELPHIA	PHILADELPHIA	5200 Woodland Ave., Philadelphia, PA	12/4/2013	39.938	-75.2161	ALEXANDER MACPHEE--CVM INDUSTRIES	UNUSED	UNUSED	24
752927	PHILADELPHIA	PHILADELPHIA	NP	3/7/2023	39.93401	-75.21508	TPI ENVIRONMENTAL, LLC	MONITORING	NP	23
424578	PHILADELPHIA	NP	REFINERY AREA - OFF S 35TH ST	6/13/2008	39.93139	-75.20306	PARRATT-WOLFF INC	WITHDRAWAL	NP	20
510959	PHILADELPHIA	PHILADELPHIA	5200 Woodland Ave., Philadelphia	12/4/2013	39.93807	-75.21633	ALEXANDER MACPHEE--CVM INDUSTRIES	TEST	UNUSED	23
510993	PHILADELPHIA	PHILADELPHIA	5200 Woodland Ave., Philadelphia, PA	12/5/2013	39.9379	-75.2162	ALEXANDER MACPHEE--CVM INDUSTRIES	UNUSED	UNUSED	23
490280	PHILADELPHIA	PHILADELPHIA	5364 Lindbergh Blvd, Philadelphia	8/30/2011	39.93276	-75.21637	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	35
490121	PHILADELPHIA	PHILADELPHIA	5364 Lindbergh Blvd, Philadelphia	8/30/2011	39.93272	-75.21634	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	28
490582	PHILADELPHIA	PHILADELPHIA	5364 Lindbergh Blvd, Philadelphia	8/30/2011	39.93264	-75.21636	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	28
673122	PHILADELPHIA	PHILADELPHIA	1350 SCHUYLKILL AVE	4/6/2004	39.93865	-75.20395	AMERIDRILL, INC.	MONITORING	OTHER	25
477823	PHILADELPHIA	PHILADELPHIA	5201 Grays Ave, Philadelphia	4/1/2011	39.93483	-75.21365	ODYSSEY ENVIRONMENTAL SERVICES, INC.	MONITORING	NP	26
752928	PHILADELPHIA	PHILADELPHIA	NP	3/7/2023	39.93382	-75.21483	TPI ENVIRONMENTAL, LLC	NP	NP	23
693848	PHILADELPHIA	PHILADELPHIA	NP	4/1/2021	39.93227	-75.20372	PARRATT-WOLFF INC	MONITORING	NP	28

Notes:

ave	avenue
blvd	boulevard
ft	feet
ID	identification
NP	not provided
PaGEODE	Pennsylvania Geologic Data Exploration



LEGEND:

WELL USE:

- ABANDONED (38)
- DESTROYED (31)
- MONITORING (124)
- NP (13)
- OBSERVATION (3)
- TEST (2)
- UNUSED (8)
- WITHDRAWAL (58)
- ONE MILE AND HALF-MILE RADIUS

NOTE:

1. AERIAL PHOTOGRAPH FROM 2020 MICROSOFT CORPORATION © DIGITAL GLOBE © CNES (2020) DISTRIBUTION AIRBUS DS BING.
2. THE WELL LOCATIONS ARE BASED ON THE LATITUDE AND LONGITUDE COORDINATES PROVIDED BY THE PENNSYLVANIA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES PENNSYLVANIA (PADCNR) GROUNDWATER INFORMATION SYSTEM (PaGWIS) PROGRAM. THE LOCATIONS ARE CONSIDERED APPROXIMATE.
3. SOME WELL LOCATIONS WITH DIFFERENT IDs ARE LOCATED AT THE SAME LATITUDE AND LONGITUDE COORDINATES PER PaGWIS SURVEY RESULTS.

0 1,200' 2,400'

GRAPHIC SCALE

ALLIANCE HSP VENTURES
1630 SOUTH 51st STREET
PHILADELPHIA, PENNSYLVANIA

PaGEODE WELL SEARCH RESULTS

ARCADIS

FIGURE
K-3

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PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/2/2024 10:11 AM BY: KRAHMER, ERIC
XREFS: IMAGES: PROJECTNAME: ----
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Appendix L

Ecological Screening Documents and Correspondence

National Wetlands Inventory

U.S. Fish and Wildlife Service
National Wetlands Inventory

Site Location Map

November 15, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

PNDI and Correspondences

1. PROJECT INFORMATION

Project Name: **Former 51st Street Terminal - Philadelphia, Pa**
Date of Review: **12/10/2024 12:11:43 AM**
Project Category: **Hazardous Waste Clean-up, Site Remediation, and Reclamation, Voluntary cleanup (Act 2 and Chapter 250)**
Project Area: **11.56 acres**
County(s): **Philadelphia**
Township/Municipality(s): **Philadelphia City**
ZIP Code:
Quadrangle Name(s): **PHILADELPHIA**
Watersheds HUC 8: **Schuylkill**
Watersheds HUC 12: **City of Philadelphia-Schuylkill River**
Decimal Degrees: **39.935420, -75.209397**
Degrees Minutes Seconds: **39° 56' 7.5131" N, 75° 12' 33.8277" W**

2. SEARCH RESULTS

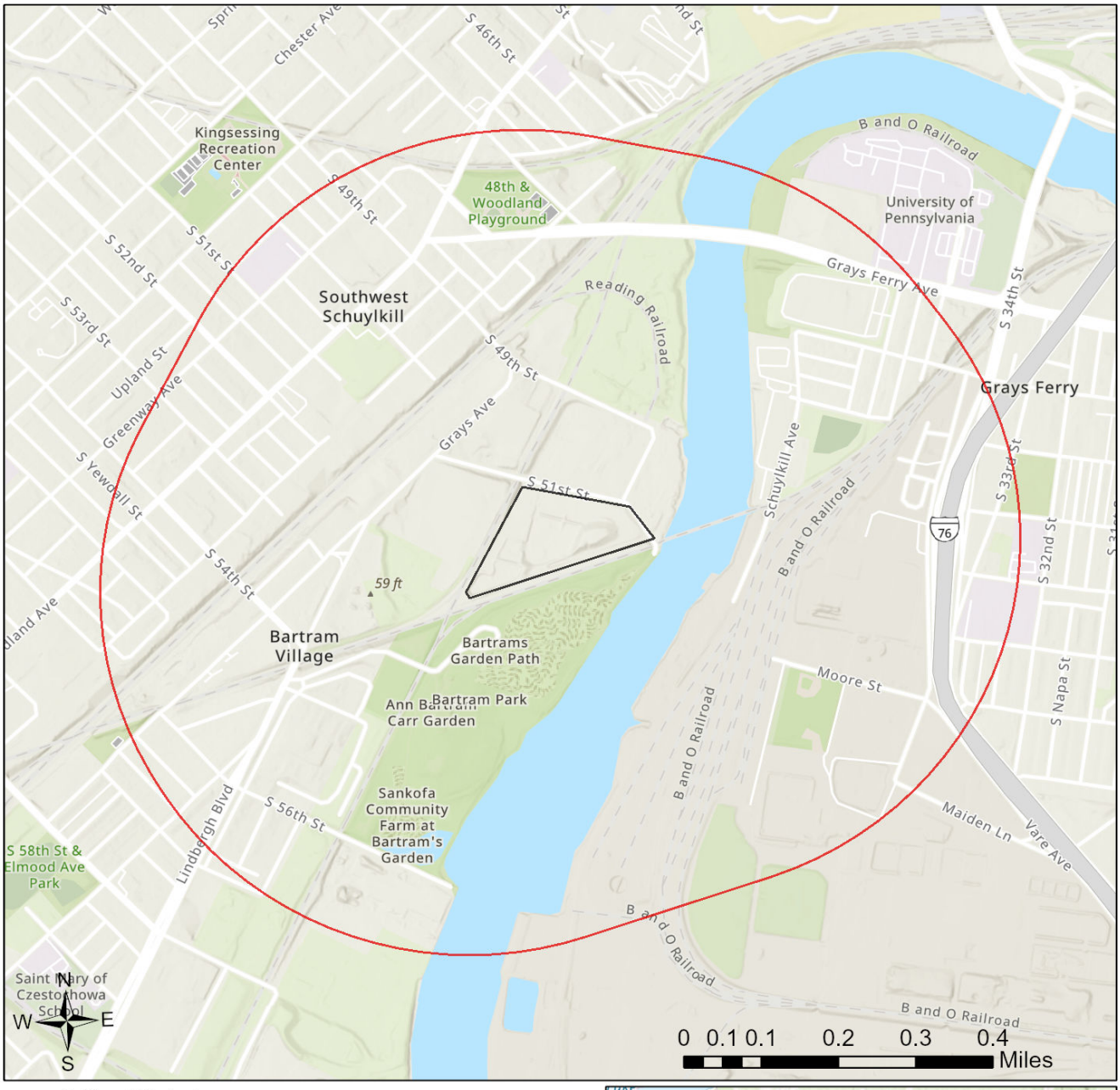
Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	**Potential Impact**	**FURTHER REVIEW IS REQUIRED, See Agency Response**
PA Fish and Boat Commission	**Potential Impact**	**FURTHER REVIEW IS REQUIRED, See Agency Response**
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

Former 51st Street Terminal - Philadelphia, Pa

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

Former 51st Street Terminal - Philadelphia, Pa



Buffered Project Boundary

Project Boundary

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

RESPONSE TO QUESTION(S) ASKED

Q1: Accurately describe what is known about wetland presence in the project area or on the land parcel by selecting ONE of the following. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.
Your answer is: The project area (or land parcel) has not been investigated by someone qualified to identify and delineate wetlands (holding a natural resource degree or equivalent work experience), or it is currently unknown if the project or project activities will affect wetlands.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jursidictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

DCNR Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: https://conservationexplorer.dcnr.pa.gov/content/survey-protocols)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Amaranthus cannabinus	Waterhemp Ragweed	Special Concern Species*	Special Concern Species*	Flowers July - September
Bolboschoenus fluviatilis	River Bulrush	Special Concern Species*	Special Concern Species*	Fruits June - August

PA Fish and Boat Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Endangered
Sensitive Species**		Endangered
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service
RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found here. This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).
*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:
__X__Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
__X__A map with the project boundary and/or a basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
In addition to the materials listed above, USFWS REQUIRES the following
____**SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.
__X__Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
____Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at https://conservationexplorer.dcnr.pa.gov/content/resources.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Fish and Boat Commission
Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

PA Game Commission
Bureau of Wildlife Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Brynn Hanna
Company/Business Name: Arcadis U.S, Inc
Address: 2100 Georgetown Drive, Suite 402
City, State, Zip: Sewickley, PA 15143
Phone: (267) 356 3735 Fax:(_____)_____
Email: brynn.hanna@arcadis.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Brynn Hanna
_____ 12/10/2024

applicant/project proponent signature date

Via PNDI electronic submission

PA Department of Conservation and Natural Resources
Bureau of Forestry
Rachel Carson State Office Building
400 Market Street
Harrisburg, PA 17105

PA Fish and Boat Commission
1601 Elmerton Avenue
PO Box 67000
Harrisburg, PA 17106-7000
717-705-7800

Arcadis U.S., Inc.
2100 Georgetown Drive
Suite 402
Sewickley
Pennsylvania 15143
Phone: 724 742 9180
Fax: 724 742 9189
www.arcadis.com

Date: December 10, 2024
Our Ref: 30108678
Subject: Rare, Threatened, and Endangered Species Consultation – PNDI-827417

Dear PA Department of Conservation and Natural Resources and PA Fish and Boat Commission,

On behalf of Alliance 51st Street LLC (Alliance), Arcadis U.S., Inc. (Arcadis) conducted an online project environmental review for the Former 51st Street Terminal Site located at 1630-1646 South 51st Street in Philadelphia, Pennsylvania (Site; see Figure 1). The results of the Pennsylvania Natural Diversity Inventory Environmental Review Tool (PNDI ER Tool) on November 24, 2024 indicated that further review of the project by the PA Department of Conservation and Natural Resources (DCNR) and the PA Fish and Boat Commission (PFBC) is necessary to resolve potential impacts.

A Species Impact Review (SIR) of the Project was previously issued by the PFBC on June 14, 2022 (SIR #56265) stating that no adverse impacts are expected to the sensitive species (Attached). The SIR (#56265) expired on June 14, 2024 and Arcadis is seeking an updated determination from the PFBC.

DCNR issued a clearance letter for the project on June 7, 2022 (PNDI Receipt # 761020(Final_1)) stating that no impacts are anticipated (Attached). This clearance letter expired on June 7, 2024 and Arcadis is seeking an updated determination from the DCNR.

This letter and the attached documents provide project specific information to assist the DCNR and the PFBC in your review of the project area to assess the potential impacts to the identified species.

The following documents are attached to this letter:

- Figure 1 - Site Plan
- Photograph Log of Site
- June 14, 2022 PFBC Clearance Letter

- June 7, 2022 DCNR Clearance Letter

Project Narrative

The Site is currently under review by the Pennsylvania Department of Environmental Protection (PADEP) through the Land Recycling and Environmental Remediation Standards Act Program (Act 2) and the Aboveground Storage Tank (AST) Program. In 2021, PBF Logistics Products Terminals LLC (PBF Logistics), the former property owner, closed the fifteen ASTs with notice to PADEP. The ASTs, loading racks, and associated piping were removed as part of the AST closure activities and the tank foundations, concrete and soil containment berms, and miscellaneous building structures, have been removed as part of redevelopment activities.

Alliance 51st Street LLC acquired the Site from PFB Logistics in December 2021. In 2024, Alliance submitted a revised Notice of Intent to Remediate (NIR) to obtain a relief of liability (ROL) for the constituents of concern (COCs) associated with the Act 2 Program. Remedial activities pertaining to the former ASTs and the petroleum products that were stored in the tanks were conducted at the Site by Arcadis (on behalf of Alliance).

Organic compounds and metals are present in site media. Soil borings in the former AST and piping area identified exceedances of PADEP soil Medium Specific Concentrations (MSCs) for volatile organic compounds, semivolatile organic componds, and lead. Groundwater samples from monitoring wells have exceedances of groundwater MSCs for benzene and lead associated with the former terminal operations. Hexavalent chromium also is present in soil and groundwater due to the historic placement of fill onsite in the early 1900s.

The Site, including the area where the former ASTs were located, occupies an approximately 12-acre parcel located south of 51st Street in an industrial/commercial section of Philadelphia. The northwestern portion of the Site previously contained three buildings and a canopy area, which have been demolished. The areas around the buildings are paved with asphalt. The remainder of the Site consists of gravel areas where the former ASTs were located, with very minimal grassy areas present onsite. The Site is entirely fenced in. It appears that the 500-year floodplain encroaches slightly onto the northeastern and eastern portions of the Site (Environmental Data Resources Inc. [EDR] 2021). The eastern portion of the small parcel to the north of the Site also appears to be within the 500-year floodplain. As shown on **Figure 1**, the Schuylkill River is located approximately 100 feet to the east of the northeastern portion of the Site and the property is bordered to the south by railroad tracks, beyond which is Bartram's Garden, a public park. The Site will remain as non-residential property and future plans for the site include redevelopment and the addition of a building and paved/landscaped areas.

No impacts to the Schuylkill River or Bartram's Garden are proposed. A portion of Bartram's Garden trail is currently closed while stormwater management and sampling occur.

If you have any questions regarding this additional project information, please do not hesitate to contact me.

DCNR and PFBC
December 10, 2024

Sincerely,
Arcadis U.S., Inc.

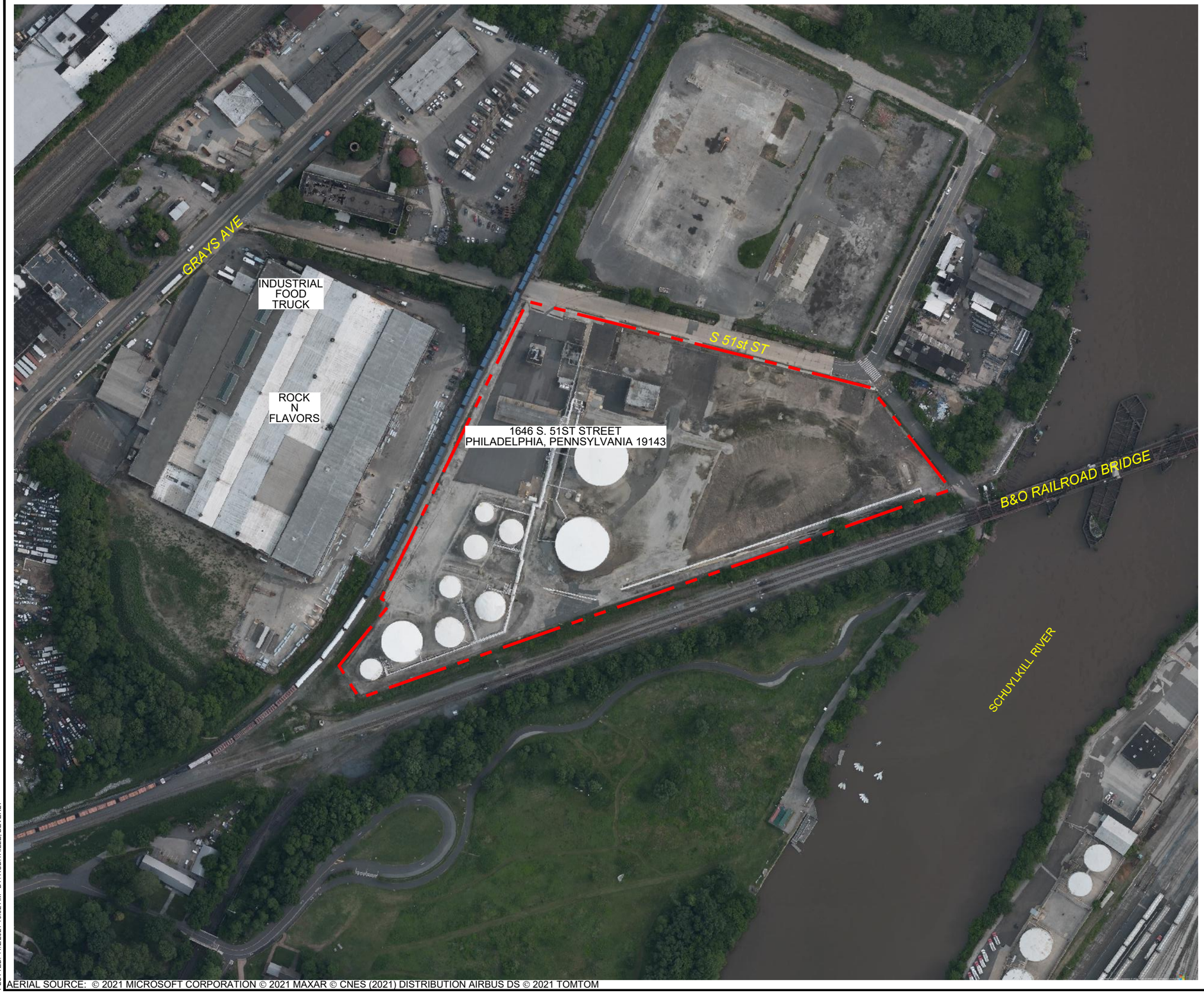
Nikki Wiefling
Principal Ecologist

Email: nicole.wiefling@arcadis.com
Direct Line: 724 934 9560

CC. Crystal Foster (Arcadis, Senior Geologist)

Enclosures:

Figure 1 - Site Plan
Photograph Log of Site
June 14, 2022 PFBC Clearance Letter
June 7, 2022 DCNR Clearance Letter



AERIAL SOURCE: © 2021 MICROSOFT CORPORATION © 2021 MAXAR © CNES (2021) DISTRIBUTION AIRBUS DS © 2021 TOMTOM

LEGEND:

PROPERTY BOUNDARY

Aboveground storage tanks have been removed.

0 200' 400'

GRAPHIC SCALE

ALLIANCE HP INVESTMENTS, LLC
1646 S. 51ST STREET
PHILADELPHIA, PENNSYLVANIA

SITE PLAN

ARCADIS

FIGURE 1

CITY: CITY DIV/GROUP:ENVCAD DB:ENVCAD
C:\Users\barobla\OneDrive - ARCADIS\BIM 360 Docs\AUS-ALLIANCE HSP VENTURES-1646 S 51ST-PHILADELPHIA PENNSYLVANIA\2021\01-IN PROGRESS\01-DWG\GEN F01-F02 LOC AND SITE.dwg LAYOUT: 2 SAVED: 11/2/2021 10:52 AM PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 11/2/2021 10:52 AM BY: ROBITAILLE, BEVERLY

Project Photographs

Alliance 51st Street LLC
Former 51st Street Terminal
1630-1646 South 51st Street in Philadelphia, Pennsylvania

Photo: 1

Date:
04/2024

Description:
Google earth street view from northern-most portion of site facing southwest.

Photo: 2

Date:
04/2024

Description:
Google earth street view from northern-most portion of site facing southeast.

Project Photographs

Alliance 51st Street LLC
Former 51st Street Terminal
1630-1646 South 51st Street in Philadelphia, Pennsylvania

Photo: 3

Date:
09/2019, before removal of ASTs

Description:
Google earth street view from southeastern portion of site facing southeast.

Photo: 4

Date:
04/2024

Description:
Google earth street view from northeastern portion of site. Facing northeast down South 51st Street.

Project Photographs

Alliance 51st Street LLC
Former 51st Street Terminal
1630-1646 South 51st Street in Philadelphia, Pennsylvania

Photo: 5

Date:
04/2024

Description:
Google earth street view of railroad at northern-most portion of site facing southeast.

Pennsylvania Fish & Boat Commission
established 1866

Division of Environmental Services
Natural Diversity Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823
814-359-5237

June 14, 2022

IN REPLY REFER TO
SIR# 56265

Bohler Engineering, Inc.
Jordyn Strnad
1515 Market Street
Philadelphia, Pennsylvania 19102

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 761020_1
Proposed Industrial Development
PHILADELPHIA County: Philadelphia City

Dear Jordyn Strnad:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search "potential conflict" or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

An element occurrence of a rare, candidate, threatened, or endangered species under our jurisdiction is known from the vicinity of the proposed project. However, given the nature of the proposed project, the immediate location, or the current status of the nearby element occurrence(s), no adverse impacts are expected to the species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Josh Brown at 814-359-5129 and refer to the SIR # 56265. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

Christopher A. Urban, Chief
Natural Diversity Section

CAU/JRB/dn

June 7, 2022

PNDI Number: 761020
Version: Final_1; 6/2/22

Jordyn Strnad
Bohler Engineering
1515 Market Street, Suite 920
Philadelphia, PA 19102
Email: jstrnad@bohlereng.com (hard copy will not follow)

Re: Proposed Industrial Development
Philadelphia Township, Philadelphia County, PA

Dear Jordyn Strnad,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number **761020 (Final_1)** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

No Impact Anticipated

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

Recommended Best Management Practices:

- Use a conservative approach to project design that minimizes permanent and temporary disturbances to soil and native vegetation. This will conserve habitat and limit opportunities for invasive plants.
- Clean boot treads, tools, construction equipment, and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site. This will remove invasive plant seeds and invasive earthworms/cocoons that may have been picked up at other worksites.
- Use clean project materials (e.g., weed-free straw) or materials native to the worksite to avoid introducing invasive species from contaminated sources.
- Revegetate or cover disturbed soil and stockpiles quickly to discourage the germination of invasive plants. Implement proper erosion control practices to stabilize soil and reduce runoff.
- Do not use seed mixes that include invasive species. More information about invasive plants in Pennsylvania can be found at the following link: http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx
- Use habitat appropriate seed mixes. For example, use a riparian seed mix when reseeding along a waterway. The Bureau of Forestry Planting & Seeding Guidelines can be found at the following link for recommendations: http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr_20031083.pdf
- Use native plants for landscaping, revegetation, and stormwater management. Do not use nonnative invasive species. Reduce the area of lawn and impermeable surfaces to the fullest extent practicable in favor of native gardens or habitat

restoration (e.g., forest, meadow, wetland, etc.). More information about lawn conversion can be found at the following link: https://www.dcnr.pa.gov/Conservation/Water/LawnConversion/Pages/default.aspx

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

Should you have any questions or concerns, please contact Alexander Dogonniuck, Ecological Information Specialist, by phone (717-783-3913) or via email (c-adogonni@pa.gov).

Sincerely,

Greg Podniesinski, Section Chief
Natural Heritage Section

Pennsylvania
Department of Conservation and Natural Resources

12/16/2024

PNDI Number: PNDI-827417
Version: FINAL_1; 12/09/2024

Brynn Hanna
Arcadis
2100 Georgetown Dr
Sewickley, PA 15213
Email: brynn.hanna@arcadis.com (hard copy will not follow)

Re: Former 51st Street Terminal - Philadelphia, Pa
City Of Philadelphia, Philadelphia County, PA

Dear Brynn Hanna,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number **PNDI-827417 (FINAL_1)** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

No Impact Anticipated

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

Recommended Best Management Practices:

- Use a conservative approach to project design that minimizes permanent and temporary disturbances to soil and native vegetation. This will conserve habitat and limit opportunities for invasive plants.
- Clean boot treads, tools, construction equipment, watercraft, and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site. This will remove invasive plant seeds and invasive earthworms/cocoons that may have been picked up at other worksites.
- Use clean project materials (e.g., weed-free straw, topsoil, rock fill, etc.) or materials native to the worksite to avoid introducing invasive species from contaminated sources.
- Do not use seed mixes that include invasive species. More information about invasive plants in Pennsylvania can be found at the following link: http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx.
- Use habitat appropriate seed mixes, and when available use PA ecotypes. For example, use a riparian seed mix when reseeding along a waterway. The Bureau of Forestry Planting & Seeding Guidelines can be found at the following link for recommendations:

http://www.docs.dcnr.pa.gov/cs/groups/public/documents/document/dcnr_20031083.pdf

- Use native plants for landscaping, revegetation, and stormwater management. Do not use nonnative invasive species. Reduce the area of lawn and impermeable surfaces to the fullest extent practicable in favor of native gardens or habitat restoration (e.g., forest, meadow, wetland, etc.). More information about lawn conversion can be found at the following link: https://www.dcnr.pa.gov/Conservation/Water/LawnConversion/Pages/default.aspx
- Plant forest buffers where trees were historically present along streams, wetlands, and bodies of water. Buffers should be a minimum of 35 feet in width (ideally at least 100 feet in width). Where trees are not appropriate (e.g., powerline rights-of-way), buffer with native shrubs and herbaceous plants. More information about riparian buffers can be found at the following link: https://www.dcnr.pa.gov/Conservation/Water/RiparianBuffers/Pages/default.aspx
- Manage road/utility rights-of-way, median strips, edges, and other green spaces for diverse native plant communities and wildlife (e.g., common and swamp milkweed for monarch butterfly). In seed mixes, include PA native wildflowers that have overlapping bloom periods and provide forage for pollinators throughout the growing season.
- Avoid blanket herbicide applications; instead, spot-treat undesirable tall woody vegetation and invasive weeds. Where mowing is necessary, reduce frequency to once every few years during the dormant season (i.e., after first frost in late fall and before bird nesting in early spring), leaving some refugia for overwintering wildlife.
- Monitor for invasive plants before, during, and after project activities and promptly control any identified infestations. Frequent monitoring allows for early detection and rapid response.

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

Should you have any questions or concerns, please contact Hope Brooks, Ecological Information Specialist, by phone (717-705-2819) or via email (c-hobrooks@pa.gov).

Sincerely,

Greg Podniesinski, Section Chief
Natural Heritage Section

pennsylvania
FISH AND BOAT COMMISSION

December 31, 2024

IN REPLY REFER TO
SIR# 60717

Arcadis
Brynn Hanna
2100 Georgetown Drive
Sewickley, Pennsylvania 15143

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 827417_1
Former 51st Street Terminal - Philadelphia, Pa
Philadelphia City: PHILADELPHIA County

Dear Brynn Hanna:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search "potential conflict" or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish and Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish and Boat Code (Chapter 75), or the Wildlife Code.

An element occurrence of a rare, candidate, threatened, or endangered species under our jurisdiction is known from the vicinity of the proposed project. However, given the nature of the proposed project, the immediate location, or the current status of the nearby element occurrence(s), no adverse impacts are expected to the species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Josh Brown at 814-359-5129 or joshubrown@pa.gov and refer to the SIR # 60717. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

Christopher A. Urban, Chief
Natural Diversity Section

CAU/JRB/dn

Arcadis U.S., Inc.
1 Harvard Way, Suite 5
Hillsborough
New Jersey 08844
Phone: 908 526 1000
Fax: 908 253 3295
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